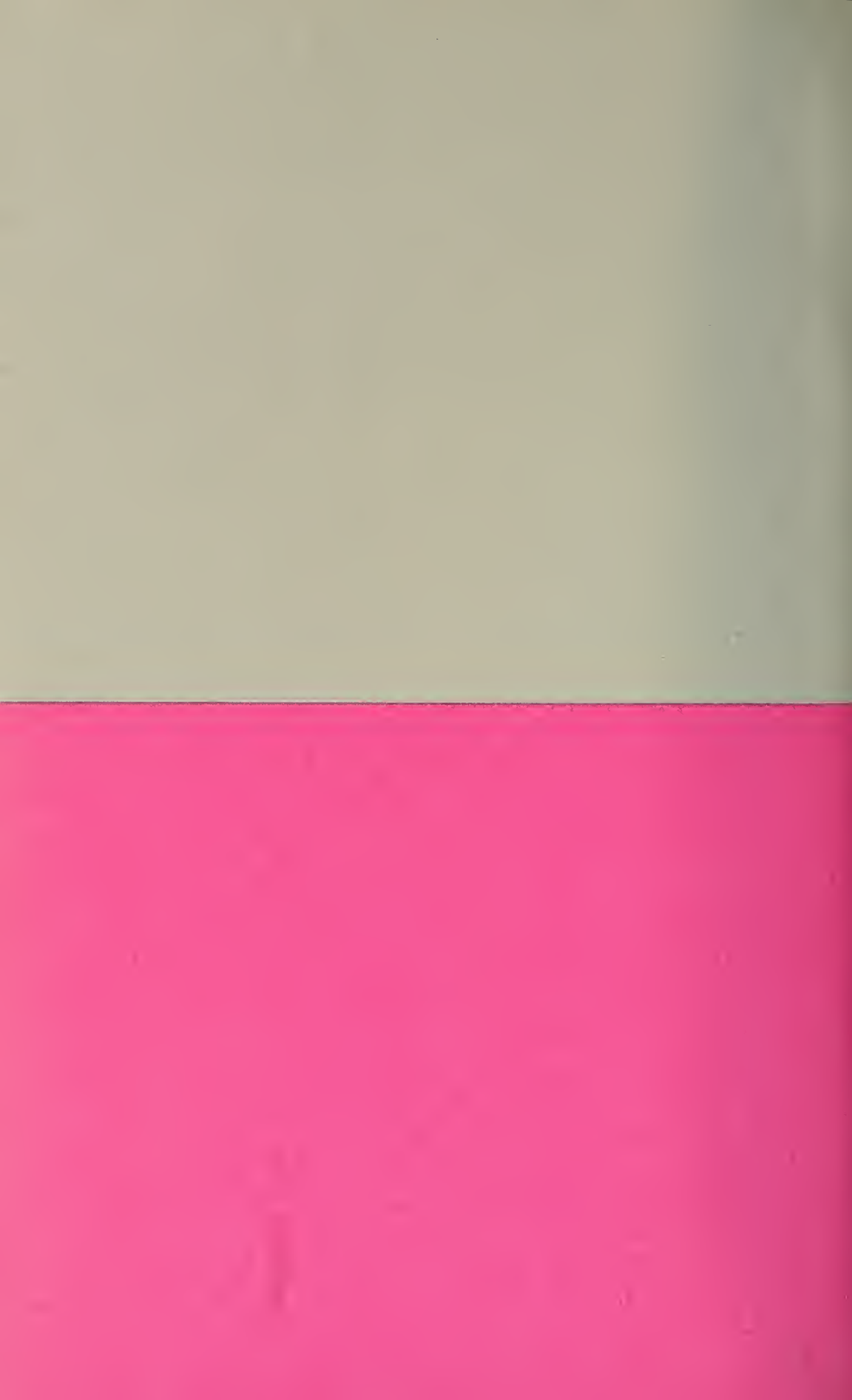


Bryn Mawr
College Calendar

The Graduate School
of Arts & Sciences

1980-81



**Bryn Mawr College Calendar
The Graduate School
of Arts and Sciences**

Issue for the Session of 1980-81
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Graduate Work at Bryn Mawr

Graduate students at Bryn Mawr are members of a small scholarly community in which they work as apprentices and junior scholars in close cooperation with faculty. In most departments, programs are designed for each graduate student according to individual preparation and experience. The work is organized in the form of seminars, graduate courses, and individual supervised study.

Founded in 1885, the Bryn Mawr Graduate School was the first graduate school for women in the United States. Since 1931 both men and women have been admitted, but only after 1965 were adequate funds obtained to offer support for men comparable to that offered to women. Always small in relation to other graduate schools, Bryn Mawr has expanded gradually in response to the need for men and women well prepared for teaching and research. In 1970 the Graduate School of Arts and Sciences and the Graduate School of Social Work and Social Research were organized as two distinct schools. Today, the student enrollment in the Graduate School of Arts and Sciences is about four hundred.

Graduate work leading to the degrees of Master of Arts and Doctor of Philosophy is available in:

<i>Anthropology</i>	<i>Greek</i>
<i>Biochemistry</i>	<i>History</i>
<i>Biology</i>	<i>History of Art</i>
<i>Chemistry</i>	<i>Latin</i>
<i>Classical and Near</i>	<i>Mathematics</i>
<i>Eastern Archaeology</i>	<i>Philosophy</i>
<i>Economics</i>	<i>Physics</i>
<i>Education and</i>	<i>Political Science</i>
<i>Child Development</i>	<i>Psychology</i>
<i>English</i>	<i>Russian</i>
<i>French</i>	<i>Sociology</i>
<i>Geology</i>	<i>Spanish</i>
<i>German</i>	

Work leading to the degrees of Master of Social Service and Doctor of Philosophy is available in the Graduate School of Social Work and Social Research.

College Calendar 1980-81

The Graduate School of Arts and Sciences

First Semester—1980

- July 1 *Applications for loans due*
- Aug. 20 *Final date for filing completed applications for admission for 1980-81*
- Aug. 28, 29, Sept. 2, 3, 4, 5, 8, 9 *Registration period for semester I*
- Sept. 2 *Graduate residence opens*
- Sept. 4 *Convocation*
Work of the 96th academic year begins at 9 A.M.
- Oct. 4 *Spanish, Italian, Russian, Latin, Statistics examinations for M.A. and Ph.D. candidates*
- Oct. 17 *Fall vacation begins after last seminar*
- Oct. 22 *Fall vacation ends at 9 A.M.*
- Oct. 25 *German examinations for M.A. and Ph.D. candidates*
- Nov. 1 *French examinations for M.A. and Ph.D. candidates*
- Nov. 26 *Thanksgiving holiday begins after last seminar*
- Dec. 1 *Thanksgiving holiday ends at 9 A.M.*
- Dec. 1 *Final date for filing completed applications for admission for semester II*
- Dec. 8-16 *Registration period for semester II*
- Dec. 24 *Winter vacation begins*

Second Semester—1981

- Jan. 19 Convocation
 Work of semester II begins at 9 A.M.
- Jan. 21 *Applications for M.A. candidacy due in the Office of the Graduate School of Arts and Sciences*
- Jan. 25 *Final date for filing completed applications for scholarships (foreign students) for 1981-82*
- Feb. 1 *Final date for filing completed applications for fellowships, scholarships, and grants (citizens of the United States and Canada) for 1981-82*
- Feb. 21 *French examinations for M.A. and Ph.D. candidates*
- Feb. 28 *Spanish, Italian, Russian, Latin, Statistics examinations for M.A. and Ph.D. candidates*
- Mar. 7 *German examinations for M.A. and Ph.D. candidates*
- Mar. 13 *Spring vacation begins after last seminar*
- Mar. 23 *Spring vacation ends at 9 A.M.*
- Apr. 1 *Ph.D. dissertations in all fields except natural sciences and Mathematics must be submitted to the Office of the Graduate School of Arts and Sciences for May 1981 degree*
- Apr. 7 *Spring Registration*
- Apr. 16 *M.A. papers due for candidates away from Bryn Mawr*
- Apr. 21 *Ph.D. dissertations in the natural sciences and Mathematics must be submitted to the Office of the Graduate School of Arts and Sciences for May 1981 degree*
- May 1 *Last day of seminars*
- May 17 *Conferring of degrees and close of 96th academic year*
 Graduate residence closes

Admission to the Graduate School of Arts and Sciences

Requirements

Students must be graduates of colleges or universities of acknowledged standing. For special requirements set by individual departments, see the departmental listings beginning on page 17.

Procedure

The applicant should write to the Dean of the Graduate School of Arts and Sciences, Bryn Mawr College, Bryn Mawr, Pennsylvania 19010, for application forms, indicating the field of special interest. The application must be supported by official transcripts of the student's complete academic record and by letters from the dean and two or more professors with whom he has done his major work. Although an interview is not required, candidates who wish to come in person to discuss their plans or the Bryn Mawr program are welcome. The applicant should write directly to the chairman of the department to arrange a meeting. No application will be considered until all the necessary documents have been received. Students are accepted for either full-time or part-time work. For citizens of the United States and Canada and for foreign students presently in the United States, there is an application fee of \$25.00 which is not refundable.

Graduate Record Examinations

Applicants are advised to take the Graduate Record Examination Aptitude Test as well as the Advanced Tests in their fields of special interest. In certain departments these examinations are required, as indicated in the departmental listings. Inquiries concerning the Graduate Record Examinations should be addressed to Graduate Record Examination, Educational Testing Service, Box 955, Princeton, New Jersey 08540 or to Graduate Record Examination, Educational Testing Service, 1947 Center Street, Berkeley, California 94704.

Dates

1. *Citizens of the United States and Canada:*
Applications for admission in all departments must be complete by August 20. Graduate Record Examinations: October 18,

1980; December 13, 1980; February 7, 1981; April 25, 1981; June 13, 1981 (aptitude only). New York State students should contact ETS concerning GRE dates.

2. *Foreign applicants:*

The closing date for admission is August 20. Applications must include the scores of the Test of English as a Foreign Language (TOEFL), the Examination of the English Language Institute of the University of Michigan, or another approved language test. Since applications from students who desire financial aid must be completed by January 25, applicants must arrange to take language tests well before that date.

For information concerning the TOEFL write to: TOEFL, Educational Testing Service, Princeton, New Jersey 08540. Tests are given on August 9, 1980; October 4, 1980; November 22, 1980; January 17, 1981; March 14, 1981; May 16, 1981. Students in departments requiring the Graduate Examination should also arrange to take these tests not later than October.

3. *Applicants for financial aid:*

Students wishing to apply for fellowships, scholarships, assistantships, tuition grants, or other forms of financial aid must present complete applications by the following dates:

For United States and Canadian citizens:

Applicants for fellowships, scholarships, assistantships,
full-time and part-time tuition grants February 1

Applicants for loans August 1

For foreign citizens:

Applicants for scholarships January 25

GAPSFAS forms must be submitted to the Educational Testing Service, Princeton, New Jersey 08540 by January 9 (see page 86)

Admission to Graduate Seminars and Courses

Admission to graduate seminars and courses is under the jurisdiction of the various departments. Students whose preparation is inadequate may be required to enroll as special students to take appropriate undergraduate courses (for which no graduate credit is given). At the end of one or two semesters the department reviews the work of the special student and makes a recommendation to the Dean concerning the student's admission to the regular graduate program.

Registration

All graduate students, after consultation with the chairmen of their departments, must register at the Office of the Graduate School of Arts and Sciences in the M. Carey Thomas Library each semester during the registration period listed in the College Calendar. Changes in registration require the approval of the department chairman and the Dean.

Personal registration is an important obligation of the graduate student. Those who fail to register in the stated period will be charged a late registration fee.

Students wishing certification to outside agencies must complete a form to be signed also by the department chairman and deposited in the Office of the Graduate School of Arts and Sciences.

Continuing Enrollment, Leaves of Absence

Students who have completed the required academic units for the Ph.D. degree and are continuing work on their dissertations must retain their enrollment and degree candidacy by registering for one or more units each semester, or by paying the continuing enrollment fee.

Graduate students who are candidates for the Ph.D. degree may, with the approval of their departments, apply to the Dean of the Graduate School of Arts and Sciences for a leave of absence for one semester or one academic year. The Dean may grant such leaves for a total period not exceeding two years. Leaves of absence exceeding the two-year period can be granted only with the approval of the department, the Dean of the Graduate School of Arts and Sciences, and the Council of the Graduate School of Arts and Sciences. No fee is required of students granted leaves of absence.

Students who are planning 1) to present themselves for College examinations, 2) to use the College libraries or laboratories or 3) to consult members of the faculty must register under the continuing enrollment plan. Such enrollment does not carry academic credit.

Degree Candidacy

Students become candidates for advanced degrees only after they have met departmental requirements and made formal application which has been approved by the Council of the Graduate School of Arts and Sciences.

Resources for Graduate Work at Bryn Mawr

The Mariam Coffin Canaday Library and the eight auxiliary libraries of Bryn Mawr College, including the Art and Archaeology Library in the M. Carey Thomas Library, contain over 550,000 books and regularly receive more than 2000 periodicals as well as many scholarly series. The Library is open throughout the year with a liberal schedule of hours. Books are readily accessible on open stacks and in study rooms; individual carrels are available for advanced students.

The John D. Gordan Reference Center provides a focus for reference books and services in the Library. In its card catalog, the main entry cards of the Haverford College Library join those of the Bryn Mawr Library, thus bringing more than 960,000 entries into one file. The Library is a member of the Pennsylvania Area Library Network/Union Library Catalogue of Pennsylvania (PALINET/ULC), which locates approximately 7,200,000 volumes in the Philadelphia area and throughout the state, including the libraries of the American Philosophical Society, the Library Company of Philadelphia, the Historical Society of Pennsylvania, the Academy of Natural Sciences, the Free Library of Philadelphia, the Franklin Institute, the College of Physicians, the Rosenbach Foundation, the University of Pennsylvania, and Temple University. In addition, through the PALINET component of the PALINET/ULC, the Library has access to the OCLC data bank of over 6,500,000 titles cataloged for academic and other libraries throughout the United States. The Library also began dial-access bibliographic research services in 1979.

The Rare Book Room houses the Marjorie Walter Goodhart Medieval Library of incunabula and medieval manuscripts. Important and extensive collections of early material on Latin America, Africa, and Asia are to be found in the Dillingham, McBride, and Plass collections. The Castle and Adelman collections expand the opportunities for the study of the graphic book-arts. The Adelman Collection also substantially increases the Library's holdings of literary and related manuscripts. In addition to these special collections are numerous other rare books and manuscripts.

Bryn Mawr has a study collection of archaeological and ethnological materials which is used for research by graduate and undergraduate students. The Ella Riegel Museum of Classical

Archaeology contains examples of the Greek and Roman arts, especially vases, and a small group of pre-classical antiquities. It includes the classical Greek coins assembled by Elisabeth Washburn King and the Aline Abaecherli Boyce Collection of Roman Republican silver coins, as well as the Densmore Curtis Collection presented by Clarissa Dryden. Professor Hetty Goldman donated an extensive series of pottery samples from the excavations at Tarsus in Cilicia. Old World Paleolithic, Neolithic, Paleo-Indian, Eastern Woodland, Southwestern, Middle Mississippian, and Mexican antiquities are also represented at Bryn Mawr in addition to the Ward Canaday Collection of outstanding examples of most of the known ceramic and textile traditions of Peru.

The Geology Department has valuable materials for research, including the extensive working and reference mineral collections of Theodore D. Rand and George Vaux, Jr. The Department is also a map repository for the U.S. Geological Survey and the Defense Mapping Agency.

In addition, students use the resources of the Philadelphia area: the Philadelphia Museum of Art, the Pennsylvania Academy of the Fine Arts, the Barnes Foundation, the Rodin Museum, the Rosenbach Museum, and the University Museum of the University of Pennsylvania. They take advantage of the musical life of the city by attending the Philadelphia Orchestra and by playing or singing with local groups.

Laboratories, classrooms, and libraries for Biochemistry, Biology, Chemistry, Geology, Mathematics, and Physics are located in the three buildings of the Science Center. At the Center are rooms designed for work with radioactive materials, for photomicrography and for glassblowing; there is a machine shop with expert instrument makers in charge and a workshop available to graduate students. Laboratories and classrooms for Anthropology and Psychology are in Dalton Hall. In addition to the usual equipment, apparatus and instruments for particular research projects by faculty and graduate students have been acquired, in part, through the Plan for the Coordination of the Sciences (see page 89), through research grants from industry and other private sources, and from government agencies.

In 1979-80 the College acquired a Hewlett-Packard 3000 computer, featuring 768 kbytes memory and 250 mbytes mass storage, tape drive, card reader and two printers. Interactive computing is supported through fifteen or more typewriter-like terminals on campus. The languages APL and FORTRAN are available, as well as the packages from IMSL (International Mathematical and Statistical Library), SPSS (Statistical Package for the Social Sciences), BMDP

(biomedical statistical package from UCLA), and DYNAMO (Dynamic Modelling language). Bryn Mawr is a member of the UniColl Corporation, a regional computer consortium in Philadelphia which provides the resources and technical support of a major facility, offering access to a pair of IBM 370/168 computers and a library of languages and applications.

Program of Study

The program of study consists of selected seminars, courses, or individual work under the close direction of members of the faculty. For the sake of convenience, this program is divided into academic units which are to be completed at Bryn Mawr College. Three academic units constitute a full year's program. An academic unit may be a year's seminar or two semester seminars, one or more undergraduate courses for graduate credit, independent study in preparation for the Preliminary Examinations, or supervised units of work.

A minimum of three academic units at Bryn Mawr is required for the degree of Master of Arts. Candidates for the degree of Doctor of Philosophy generally complete three full years of graduate work which must, with certain exceptions, include a minimum of six academic units at Bryn Mawr (see degree requirements, p. 14).

For the list of advanced undergraduate courses which with additional work may be accepted as graduate units subject to the approval of department chairmen and the Dean of the Graduate School of Arts and Sciences, see the departmental offerings beginning on page 17.

In many departments, members of the faculty and graduate students meet from time to time in Journal Clubs or Colloquia to discuss current research or to review recent publications in their field of study.

Under the Reciprocal Plan, courses at the University of Pennsylvania Graduate School of Arts and Sciences are available to Bryn Mawr graduate students. All full-time students and such part-time students as intend to become candidates for degrees are eligible. The number of courses which may be taken at the University is limited to the equivalent of one unit per year. The procedure for registration and payment of tuition fees is the same as for students enrolled wholly at Bryn Mawr, with the exception that the student must present a letter of introduction to the Dean of the Graduate School of Arts and Sciences of the University of Pennsylvania when registering there. The University charges a small general fee for the use of the library, a library deposit, which is refundable, and fees for late registration. Ordinarily students are not advised to undertake such work during their first year at Bryn Mawr.

Summer Work

Bryn Mawr has no regular summer session on campus. Occasionally, at the invitation of members of the faculty, arrangements can

be made for graduate students to continue research during the summer. The amount of credit for the work and the tuition fee to be charged depend upon the particular circumstances. Students should register for such work at the Office of the Dean of the Graduate School of Arts and Sciences early in June.

Summer Institutes in France and Spain

Institut d'Etudes Françaises d'Avignon

Bryn Mawr College offers a summer program of intensive work in significant aspects of French culture at the *Institut d'Etudes Françaises d'Avignon*. Certain courses carry graduate credit. For information write to Dr. Michel Guggenheim, Department of French, Bryn Mawr College.

Centro de Estudios Hispánicos

For a similar summer program in aspects of Hispanic culture at the *Centro de Estudios Hispánicos* in Madrid, write to Dr. Eleanor K. Paucker, Department of Spanish, Bryn Mawr College.

Massenzia

Bryn Mawr College has a graduate residence center in Rome, Massenzia, Via Appia Pignatelli 62, Roma 00178, presently under the direction of Professor Kyle M. Phillips, Jr. Graduate students of Bryn Mawr College and other academic institutions can reside at the center while engaged in research and writing. They participate in the lecture program and visits to special sites and monuments organized by Massenzia. Massenzia fellowships are available to Bryn Mawr students, see pages 89-90.

Degree Requirements

The Graduate School of Arts and Sciences offers programs leading to the degrees of Doctor of Philosophy and Master of Arts.

The Degree of Doctor of Philosophy

The course of study is designed to prepare students for professional careers as scholars and teachers. Candidates should have ability of high order, intellectual curiosity, critical judgment, independence, a broad general education, fundamental training in the major and allied fields, and the determination needed to carry through an exacting program.

The general requirements, to which should be added those of the various departments, are as follows:

1. Undergraduate preparation in major and allied fields which is satisfactory to the departments concerned and to the Council of the Graduate School of Arts and Sciences.

2. A minimum of three full years of work beyond the A.B. degree in major and allied fields. Graduates of other colleges must complete at least six academic units at the Graduate School of Arts and Sciences of Bryn Mawr College. (Residence Requirement). Each doctoral candidate must complete at least one unit of supervised work on the dissertation. This unit may be part of (but often is taken in addition to) the six units of the residence requirement. The residence requirement may be reduced by the Council of the Graduate School of Arts and Sciences for candidates who have held academic appointments for two or more years at Bryn Mawr College and occasionally for others. Students who hold the A.B. degree from Bryn Mawr College must complete a minimum of three academic units at Bryn Mawr.

3. The recommendation of the student as a candidate by the director of the dissertation and the major department and the acceptance of the recommendation by the Council of the Graduate School of Arts and Sciences. Application for candidacy, on a form to be obtained at the Office of the Dean of the Graduate School of Arts and Sciences, may be made as early as the spring of the student's first year, provided that the student has been registered for two units of graduate work at Bryn Mawr.

4. Knowledge of the foreign languages, computer languages (such as FORTRAN, ALGOL, PL/I, etc.), and special techniques (such as statistics) required by the individual departments. In certain circumstances, students whose native language is not English may

offer English for one of the languages. These requirements must be fulfilled before the student takes the Preliminary Examinations.

5. Satisfactory Preliminary Examinations in the fields established for the candidate. These examinations are intended to test the candidate's knowledge of the principles of the subject, exemplified by the command of several fields or areas, the ability to apply knowledge to new problems, and power of organization.

6. The preparation of a dissertation worthy of publication, which presents the results of independent investigation in the fields of the major subject and contains original material, results, or interpretations.

7. A satisfactory Final Oral Examination devoted to the dissertation and the special field in which it has been written.

8. The publication of the dissertation in whole or in part. Micro-filming is accepted as a method of publication.

A special pamphlet describing regulations for the Ph.D. degree will be issued to students applying for candidacy.

The Degree of Master of Arts

The general requirements for the M.A. degree are as follows:

1. Undergraduate preparation in major and allied fields which is satisfactory to the departments concerned.

2. A knowledge of one modern foreign language and such additional foreign languages or special techniques as the individual departments may require. Students whose native language is not English, except for those majoring in the language and literature of their native tongue, are not required to present an additional language.

3. The completion of a satisfactory program of work endorsed by the department and accepted by the Council of the Graduate School of Arts and Sciences. Application for such endorsement must be submitted on appropriate forms to the Dean of the Graduate School of Arts and Sciences not later than one week after the beginning of the second semester of the academic year in which the candidate wishes to take the degree. The program of study must include three units of work: (1) one seminar or graduate course, (2) a second seminar or supervised unit of graduate work, (3) a third seminar or an undergraduate course recommended by the major department. If undergraduate courses are included in this last unit, they must be supplemented by additional individual work. Only one such course may be offered for the M.A. degree. Under certain circumstances advanced undergraduate courses in science can be counted as seminars, subject to the approval of the department and the Dean of the Graduate School of Arts and

Sciences. Candidates whose major department conducts a Journal Club or Colloquium are expected to include it in their program.

4. The preparation of a paper in a special field normally related to one of the seminars or units of graduate work in the candidate's program. Candidates currently at Bryn Mawr College shall submit this paper by the date set by the department. Candidates not currently on campus must submit the paper 30 days before Commencement in the academic year of their candidacy.

5. Each candidate, after all other requirements have been completed, must pass a Final Examination.

6. Work for the degree may be spread over several years which need not be in succession but must be included in a five-year period (60 months).

Graduate Program in Arts and Sciences 1980-1981

Graduate Seminars and Courses

Graduate seminars and courses vary from year to year. Undergraduate courses which may with additional work be offered for graduate credit are listed by number. The letter "a" following a number indicates a half-course given in the first semester; the letter "b" following a number indicates a half-course given in the second semester; the letter "c" following a number indicates a half-course given two hours a week throughout the year.

Special graduate requirements are listed under each department. For the general degree requirements for the M.A. and the Ph.D., see pages 14-16.

Anthropology

Professor: Jane C. Goodale, Ph.D.†

Associate Professors: Philip L. Kilbride, Ph.D., *Chairman*
Judith R. Shapiro, Ph.D.†

Assistant Professor: Richard H. Jordan, Ph.D.

Lecturer: Richard S. Davis, Ph.D.

Professor of Linguistics in Anthropology and German:
Nancy C. Dorian, Ph.D.

Visiting Lecturer: Frederica de Laguna, Ph.D., (semester II, 1980-81)

Prerequisites: A good undergraduate preparation in Anthropology or a closely related discipline is desirable. Scores of the Graduate Record Examination Aptitude Test are required for admission. Students whose undergraduate training is not entirely adequate will be required to take such undergraduate courses as may seem necessary.

† On leave semester II

‡ On leave 1980-81

Language Requirements. Candidates for the M.A. or Ph.D. must offer one of the following two options: (1) two modern languages (French, German, Russian, Spanish) or (2) one modern language (French, German, Russian, Spanish) and statistics or computer science. Language skills will be tested by examinations administered by Bryn Mawr College. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr. Competence in statistics and computer science will be acknowledged when the student satisfactorily passes an approved graduate course in statistics or computer science. The statistics requirement may also be fulfilled by passing an examination administered by the Department.

Program and Examination for the M.A. For students with an excellent undergraduate preparation, the program may consist of a minimum of three units of work in seminars or advanced undergraduate courses arranged for graduate credit, one of which may be in an allied subject. The program usually takes two years. The M.A. paper may be based on an essay offered in a seminar. The Final Examination consists of one four-hour written examination, but the Ph.D. Preliminary Examinations may be substituted for the M.A. Examination. All graduate students are expected to take the M.A. before proceeding to the Ph.D. Those who enter Bryn Mawr College with an M.A. in Anthropology may petition the Department to proceed directly to the Ph.D. program.

Program and Examination for the Ph.D. The Department emphasizes the holistic nature of the anthropological discipline and will expect each student to become familiar with various cultural, social, and archaeological approaches and the anthropology of at least two geographical regions, in addition to areas and topics of professional specialization.

The preliminary Examinations for candidates for the Ph.D. (usually taken near the end of the third year of graduate work) will consist of three four-hour written examinations and an oral examination of one hour. Students must also have a research proposal approved by the supervising committee.

Since the dissertation is usually based upon field work, it is difficult for a student to obtain the degree in less than five years.

General Degree Requirements for the M.A. and the Ph.D. See pages 14-16.

SEMINARS AND GRADUATE COURSES

Four or five seminars are offered each semester. Rarely is the same seminar offered in consecutive years in order to allow the greatest

possible choice and variety to each student over a two- to three-year period. For advanced students units of supervised readings are sometimes substituted for seminars. Topics listed below indicate the areas in which seminars will be offered according to the needs of students.

Mr. Davis

Paleoecology

Miss Dorian

Linguistic Techniques and Field Methods

Socio-Linguistics

Miss Goodale

Topics in Oceanic Ethnography (Australia, Melanesia, Polynesia and Micronesia)

Methods in Ethnographic Research

Social Organization

Mr. Jordan

Arctic Archaeology

Environmental Archaeology

History of Archaeological Theory

Human Evolution and Old World Prehistory

Mr. Kilbride

Topics in African Ethnography

Psychological Anthropology

Cultural Dynamics and Modernization

Quantitative Methods of Analysis

Miss Shapiro

Topics in Lowland South-American Ethnography

Sex Roles

Linguistic Anthropology

Topics in Social and Cultural Theory

Missionization

SELECTED UNDERGRADUATE COURSES

- 302 *Africa: Sub-Saharan Ethnology*: Mr. Kilbride
- 303 *Oceania: Topics in Melanesian Ethnography*: Miss Goodale
- 305 *Native Cultures of South America*: Miss Shapiro
- 308 *Language in the Social Context*: Miss Dorian
- 313 *Linguistic Anthropology*: Miss Shapiro
- 314 *Comparative Hunters and Gatherers*: Mr. Davis

- 320 *Cultural Theory*: Mr. Davis
321 *Psychological Anthropology*: Mr. Kilbride
324 *Cultural Ecology*: Mr. Jordan

In addition, courses at the University of Pennsylvania are available under the terms of the Reciprocal Plan (see page 12).

Biochemistry

Committee on Biochemistry:

Professor of Biology: Robert L. Conner, Ph.D.

Professor of Chemistry: George L. Zimmerman, Ph.D.

Associate Professor of Biology: David J. Prescott, Ph.D., *Chairman*

Assistant Professor of Chemistry: Kenneth G. Strothkamp, Ph.D.†

This interdisciplinary program offers work within the Departments of Biology and Chemistry and leads to the M.A. or Ph.D. degree. It is administered by the Committee on Biochemistry, which consists of members of the two departments. Depending on their backgrounds and interests, students may enter the program either through the Department of Biology or the Department of Chemistry.

Prerequisites. Undergraduate degree with a major or its equivalent in either Biology or Chemistry.

Major and Allied Subjects. Students will receive their advanced degrees in either Biology or Chemistry with a major in Biochemistry. The allied field will usually be a branch of Biology or Chemistry different from Biochemistry. It may also be selected from fields in Biophysics, Physics, Mathematics, or Psychology. Other combinations may be accepted with the approval of the Committee and the Council of the Graduate School of Arts and Sciences.

Language Requirements. See the requirements set by each department.

Program and Examination for the M.A. Students who are candidates for the M.A. will usually offer one unit of seminar or course work in either Biology or Chemistry and an additional unit of work in Biochemistry. A third unit of work consists of an experimental

† On leave 1980-81

investigation carried out under the direction of a member of either department. The results of this unit must be made the subject of a written paper. The Final Examination consists of a four-hour written examination or a three-hour written and one-hour oral examination.

Program and Examinations for the Ph.D. All students must take the core curriculum in Biochemistry, which includes Biochemistry 353a and b, or its equivalent if taken elsewhere, and a series of graduate courses and seminars in Biochemistry. Students should note that one semester of physical chemistry emphasizing thermodynamics is a pre- or co-requisite for admission to the graduate courses in Biochemistry. At least one-half unit of physiology, cell biology, genetics, or developmental biology is also required. In addition, students will usually take other graduate courses or seminars, depending on their interests, in either department in order to acquire a broad general background for research or teaching in Biochemistry. They will usually devote a large portion of their time to research carried out under the direction of a member of the Committee on Biochemistry. The Preliminary and Final Examinations are taken in accordance with the regulations set by the department in which the student is enrolled.

General Degree Requirements for the M.A. and Ph.D. See pages 14-16.

SEMINARS AND GRADUATE COURSES

See listings under the Departments of Biology and Chemistry.

SELECTED UNDERGRADUATE COURSES

See listings under the Departments of Biology and Chemistry.

Biology

Professor: Robert L. Conner, Ph.D., *Chairman*

Associate Professors: Anthony R. Kaney, Ph.D.
David J. Prescott, Ph.D.

Lecturer: Patricia Onderdonk Pruett, Ph.D.

Assistant Professor of Chemistry: Kenneth Strothkamp, Ph.D.†

† On leave 1980-81

Prerequisites. An undergraduate major in Biology, Zoology, or Botany, including courses in general and organic chemistry. Some college-level preparation in Mathematics and Physics is desirable. Students with majors in other subjects may be admitted but will be required to make up any deficiencies in their preparation in Biology before being admitted to graduate courses. All applicants should submit scores from the Graduate Record Examination Aptitude Test and the Advanced Test in Biology.

Major and Allied Subjects. Candidates for the M.A. and Ph.D. degrees may specialize in cell biology, cellular physiology, developmental biology, genetics, molecular biology, neurochemistry, or neurophysiology, but must take work also from areas not chosen for specialization. Candidates may also major in biochemistry through the Biochemistry Program (see page 20). Allied subjects may be selected from fields in Chemistry, Physics, and Psychology, and in special cases from other related fields, with the approval of the Council of the Graduate School of Arts and Sciences.

Language Requirements. Candidates for the M.A. degree should offer French, German, or statistics. Candidates for the Ph.D. degree must offer two foreign languages: French and German (or some other language by special permission of the Department and the Council of the Graduate School of Arts and Sciences), or one foreign language and statistics. The statistics requirement may be satisfied by passing a graduate course in statistics at Bryn Mawr or by examination administered by the Biology Department. Language skills will be tested by the examinations administered by Bryn Mawr College.

Program and Examination for the M.A. One full year, or its equivalent, of course work in seminars and advanced undergraduate courses arranged for seminar credit and a written report on a piece of experimental work carried out under the direction of a member of the Department. Qualified students may substitute a unit of supervised research for formal course work. The Final Examination consists of a three-hour written examination covering the areas of study and a one-hour oral examination concentrating particularly on the interpretation and significance of the experimental problem and its relation to biology more generally.

Program and Examinations for the Ph.D. The Preliminary Examinations for the Ph.D. consist of three written examinations, each of four hours' duration, and an oral examination of one to two hours. These examinations will cover the areas included in the course work in the major and allied fields. After the subject of the dissertation has been decided, the student will meet with the faculty of the Department to outline and discuss the subject and the proposed

plan of research. The Final Examination is oral, covering the subject of the dissertation in relation to the general field of Biology.

General Degree Requirements for the M.A. and Ph.D. The Department expects all graduate students to become biologists who are professionals both in research and in education. It is anticipated that all graduate students will gain experience in teaching, usually in the capacity of a teaching assistant. See also pages 14-16.

Cooperation with the Medical College of Pennsylvania. Students formally enrolled in the Graduate Program in Biology at Bryn Mawr College or in the Graduate School of Medical Sciences of the Medical College of Pennsylvania will be permitted to take one graduate course per semester at the counterpart institution for credit and without payment of additional tuition or fees.

Graduate courses may be offered in which the instruction is shared by faculty members of the Biology department of Bryn Mawr College and the GSMS/MCP. In each case, one member of either faculty will serve as course director. In 1980-81, a joint course will be offered on Molecular Aspects of Cell Structure and Function.

GRADUATE COURSES

Mr. Prescott

Advanced Biochemistry—semester I

A detailed examination of the structure and function of selected proteins. Physical and chemical means of determining the structure of macromolecules will be emphasized. Two hours' lecture. Prerequisite or equivalent—Interdepartmental 353a and b. Prerequisite or co-requisite or equivalent—semester I of Chemistry 203.

Mr. Strothkamp

Advanced Biochemistry—semester II

The kinetics and mechanisms of several enzyme systems will be examined in detail. Metalloenzymes will be emphasized. Two hours' lecture.

Faculty of Biology Department and Medical College of Pennsylvania

Molecular Aspects of Cell Structure and Function—
semester I and II

This course is designed to provide an introduction to current concepts in molecular and cellular biology to individuals who have had some previous undergraduate training in biology and/or chemistry. The course will be particularly useful to individuals who are considering re-entry into graduate programs in

the biological sciences. A series of integrated lectures on cellular organization, structure and function will provide an interdisciplinary overview of biochemistry, cell and molecular biology, microbiology, immunology, genetics and pathology. The course will be divided into four sections:

- I. Cellular Biology and Biochemistry
- II. Viruses, Bacteria and Eukaryotic Cells
- III. Cellular Genetics
- IV. Molecular Aspects of the Disease State

For Statistics: See offerings in the Graduate School of Social Work and Social Research and the Department of Psychology.

Journal Club: All faculty members and graduate students meet each week for presentation of current research in Biology. Graduate students, faculty, and outside speakers will participate.

SEMINARS

All seminars and advanced undergraduate courses arranged for seminar credit are offered for one semester each year. Four seminars are offered each year, with each area being offered in alternate years. The topics considered in any semester are selected in accordance with the needs and desires of the students enrolled. A list of seminar topics offered in each area in recent years is given below:

Cellular Physiology

- Membrane Structure and Function
- Regulation of Lipid Metabolism
- Molecular Endocrinology

Genetics

- Somatic Cell Genetics
- Genetics of Ciliated Protozoans
- Structure and Function of the Chromosome

Developmental Biology

- Gametogenesis and Development
- Fertilization
- Sex Differentiation

Biochemistry

- Neurochemistry
- Protein Structure and Chemistry
- Peptide Hormones

Neurophysiology

Organization of Motor Systems

Cyclic Nucleotide Involvement in Neural Functioning

SELECTED UNDERGRADUATE COURSES

The following advanced undergraduate courses with supplemental work may be taken for graduate credit:

350b *Problems in Cell Physiology*: Mr. Conner351a *Problems in Genetics*: Mr. Kaney353 *Biochemistry*: Mr. Conner, Mr. Prescott, Mr. Strothkamp355a *Problems in Neurophysiology*358a *Analysis of Development*362a *Cellular Physiology*: Mr. ConnerInt. 357a *Computer Usage in the Life Sciences*: Mrs. Pruett

Chemistry

Professors: Jay Martin Anderson, Ph.D., *Director of Computing Services*

Ernst Berliner, Ph.D., *Chairman*Frank B. Mallory, Ph.D., *Academic Deputy to the President*

George L. Zimmerman, Ph.D.

Associate Professor: Joseph Varimbi, Ph.D.

Assistant Professors: Geraldine Richmond, Ph.D.

Kenneth G. Strothkamp, Ph.D.†

Charles S. Swindell, Ph.D.

Lecturers: Frances Bondhus Berliner, Ph.D.

Associate Professor of Biology: David J. Prescott, Ph.D.

Fields of Study and Research. The primary aim of the instruction of graduate students in the Department of Chemistry is to provide a sound background in modern chemistry and to prepare men and women for a professional career in academic or industrial research or in teaching. Courses and seminars are offered to enable the students to acquire a command of their chosen fields, in addition to a sufficiently broad general background so that they will be prepared

†On leave 1980-81

for the variety of assignments in chemistry teaching or research which they may later encounter. Thesis research is the major part of the training. Research training is centered on a variety of investigations carried out by the members of the faculty. Currently there are active research programs involving both faculty and students in the following areas of organic, inorganic, physical, and theoretical chemistry, and of biochemistry: kinetics of electrophilic substitution and addition, relative reactivities of polynuclear aromatic systems, organic photochemistry, nuclear magnetic resonance as applied to substituent effects and through-space nuclear coupling, synthetic organic chemistry, synthesis of naturally occurring alkaloids and related compounds, study of amine oxide stabilized carbanions, reactions and electrochemical studies in liquid ammonia and other non-aqueous solvents, gas phase and solution photochemical isomerization and dissociation and molecular spectroscopy, theoretical quantum chemistry and nuclear magnetic relaxation, laser optoacoustic spectroscopic studies of weak absorption, two-photon absorption, and photoisomerization in liquids, structure and function of copper proteins, evolution of metalloproteins, and binding of metal ions to nucleic acids.

Under the Plan for the Coordination of the Sciences there are special opportunities for research and training in such interrelated areas as geochemistry, chemical physics, etc. See page 89.

Prerequisites. An undergraduate preparation in chemistry including courses in inorganic, analytical, organic, and physical chemistry, college physics, and mathematics (calculus). All applicants should submit scores on the Graduate Record Examination Aptitude Tests and Advanced Test in Chemistry. Applicants lacking some of these prerequisites may be considered for admission under special circumstances in consultation with the Department.

Major and Allied Subjects. Students may specialize in organic, inorganic, or physical chemistry; they may also specialize in biochemistry within the biochemistry program. See page 20. The allied subject for the Ph.D. may be chosen from the fields of mathematics, physics, inorganic geology, biology, and a branch of chemistry different from that of the major subject. Other combinations may be accepted with the approval of the Council of the Graduate School of Arts and Sciences and on the recommendation of the Department. The typical work for the allied subject would be a year's course or seminar on an approved level.

Language Requirements. Candidates for the M.A. must offer German, French, or Russian. Candidates for the Ph.D. may offer two of the following: German, French, Russian, or demonstrated skill

in digital computation, numerical analysis, and the theory of error. This skill is tested by an examination consisting of two parts, a practical part requiring the writing and successful execution of a FORTRAN (or other equivalent language) program and a written description of the mathematical basis and a documentation of the program, or by a satisfactory grade in an appropriate course.

Language skills will be tested by examinations administered by Bryn Mawr College. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

Program and Examination for the M.A. Students who are candidates for the M.A. will usually offer one seminar in their special field, another seminar or advanced undergraduate course in chemistry or an allied field, and one unit of research. This unit consists of an experimental or theoretical investigation carried out under the direction of a member of the Department. The Final Examination consists of a four-hour written examination or a three-hour written and one-hour oral examination.

Program and Examinations for the Ph.D. Ph.D. students will normally be expected to devote a large portion of their time to experimental or theoretical research carried out under the direction of a member of the Department. They will usually take all seminars offered in their special fields during their stay at Bryn Mawr, in addition to such courses as will give them a broad background in chemistry. The Preliminary Examinations will normally be taken in the student's third year of graduate study. They consist of two four-hour written examinations and two oral examinations. The two written examinations will be from the candidate's major field. One will be an examination in the general aspects of that field. The second will be in the special field of the candidate's research and will include questions designed to test familiarity with, and ability to interpret, material from the recent chemical literature. One of the oral examinations will be held soon after the written examinations have been completed and will be for the purpose of clarifying and augmenting the candidate's responses on the two written examinations. The three examinations described so far must be completed within a period of five weeks. The other oral examination will involve the defense of two original chemical research proposals previously submitted by the candidate. No more than one of these proposals may deal with work related to the special field of the student's research. All four of the examinations must be completed within a period of one year.

The Final Examination is oral and is devoted to the subject matter of the student's dissertation.

General Degree Requirements for the M.A. and the Ph.D. See pages 14-16.

Colloquium. All members of the Department and the graduate students meet every week for a presentation of current research in chemistry, usually by outside speakers.

SEMINARS AND GRADUATE COURSES

In order to meet the needs of the students and to offer them as wide a selection of topics as possible, the seminars are arranged in such a way that each one is usually given at least once within a three-year period. The topics listed below are given in one-semester seminars, counting one-half unit of credit each. Ordinarily four seminars are offered each year. Individual programs are flexible, and the contents of the seminars are likely to vary with the research interests of the students and the current research activities of the faculty.

The seminars listed below are illustrative of those that have been offered in recent years.

Mr. Anderson

Theoretical Quantum Chemistry
Non-equilibrium Thermodynamics

Mr. Berliner

Physical Organic Aspects of Aromatic Chemistry
Physical Organic Chemistry
Structure and Physical Properties of Organic Compounds

Mr. Mallory

Organic Photochemistry
Spectral Applications in Current Organic Chemistry

Mr. Varimbi

Special Topics in Inorganic Chemistry
Statistical Thermodynamics

Mr. Strothkamp

Spectroscopic Methods for Studying Biological Macromolecules
Occurrence and Function of Metal Ions in Biological Systems

Mr. Zimmerman

Surface Chemistry
Theory of Radiative and Non-radiative Transitions
Photochemistry

For additional seminars in Biochemistry, see the Department of Biology.

SELECTED UNDERGRADUATE COURSES

The following advanced undergraduate courses may be taken for graduate credit:

- 301b *Advanced Inorganic Chemistry*
- 302 *Advanced Organic Chemistry*
- 303a *Quantum Mechanics of Atoms and Molecules*
- 303b *Atomic and Molecular Spectroscopy*
- 353 *Biochemistry*
- 356b *Biochemical Mechanisms*

Classical and Near Eastern Archaeology

Professors: Machteld J. Mellink, Ph.D., *Chairman*
 Kyle M. Phillips, Jr., Ph.D., *Resident Director*
of Massenzia, Rome
 Brunilde S. Ridgway, Ph.D.

Associate Professor: Richard S. Ellis, Ph.D.*

Assistant Professors: James C. Wright, Ph.D.
 Kathleen S. Wright, Ph.D.†

Lecturer: Gloria F. Pinney, Ph.D.

Professor of Classical and Near Eastern Archaeology
and of History of Art: Phyllis Pray Bober, Ph.D.

Prerequisites. An undergraduate major in Archaeology or at least two courses in Archaeology or Ancient Art combined with a major in History of Art, Anthropology, Greek, Latin, or Ancient History. It is expected that students of Classical Archaeology will have a basic knowledge of Greek, Latin, and ancient history, and a reading knowledge of German and French (or Italian). For students of Near Eastern Archaeology the prerequisites are ancient history and a reading knowledge of German and French (or Italian); some preliminary study of an ancient Near Eastern language is desirable. Each application will be judged individually on its aims and soundness of preparation. All applicants must submit scores of the Aptitude Test of the Graduate Record Examinations.

* On leave semester I 1980-81

† On leave 1980-81

Fields of Study and Allied Subjects. There are two fields of concentration: 1. The art and archaeology of the Greek and Roman world and its Mediterranean predecessors; 2. the art and archaeology of the ancient Near East. These fields may be combined in a program of major and allied subjects. Allied subjects are ancient languages (Greek, Linear B, Latin, Sumerian, Akkadian, Ugaritic, Hebrew, Hittite, Egyptian), ancient history, History of Art, Anthropology, or a science related to the program of the student.

Language Requirements. For the M.A. and Ph.D., a good reading knowledge of German and French. For the Ph.D., a reading knowledge of one ancient language. Modern language skills will be tested by examinations administered by Bryn Mawr College.

Program and Examination for the M.A. Three units of work in Archaeology or in Archaeology and an allied field; a research paper prepared under the supervision of a departmental adviser; three hours of written examination concerning the field in which the research paper was undertaken; one hour of oral examination to discuss the results. This M.A. is a prerequisite for the Ph.D. program and will normally take two years to complete.

Program and Examinations for the Ph.D. After completion of the M.A. program students continue to take seminars and supervised work in preparation for the Preliminary Examinations and the Ph.D. dissertation. A program of study is designed for each individual student in consultation with the Department. Four special fields of study (one of which may be an allied field) are prepared for the Preliminary Examinations. The examinations consist of four four-hour papers and an oral examination.

All graduate students are encouraged to spend their third or fourth year of graduate study abroad. Students in Classical Archaeology are advised to spend a year at the American School of Classical Studies in Athens. For study in Italy, Bryn Mawr College now sponsors Massenzia, a graduate study center in Rome. Students of Near Eastern Archaeology will be advised to attend a center of archaeological research in their area of concentration. Museums in Europe and the Near East should be visited in the course of the year(s) spent abroad. Participation in excavations under the auspices of Bryn Mawr College or other schools is arranged when possible.

Depending upon individual study programs, the Preliminary Examinations are normally taken at the end of the third or in the course of the fourth year of graduate study.

General Degree Requirements for the M.A. and the Ph.D. See pages 14-16.

Excavations. The Department has sponsored excavation projects in Turkey and Italy. At present two projects are nearing the stage of completion.

- I. An investigation of the Bronze Age habitation of ancient Lycia in Southwestern Turkey, and of painted tomb chambers in this area. The final publication is being prepared on the basis of joint field reports by the participants (cf. *American Journal of Archaeology* annual reports from 68 [1964] to 80 [1976], most recently 80 [1976] pp. 377-391.
- II. The Etruscan project, started in 1966, is the excavation of the archaic site of Murlo near Siena, organized in cooperation with the Archaeological Museum in Florence. Selected students participate during the summer in field work and study of excavated material (cf. *American Journal of Archaeology* annual reports from 71 [1967] to 81 [1977], most recently 81 [1977] pp. 85-100.
- III. A new project in Eastern Turkey is under consideration for the years 1980-1985. A site on the West bank of the Euphrates has been tentatively chosen as an objective for rescue and training excavations under the direction of members of the Department.

Cooperation with the University of Pennsylvania. Attention is drawn to the courses offered by the Departments of Classical Archaeology, Anthropology, History of Art, Oriental Studies, and Biblical Archaeology at the University of Pennsylvania. Under the Reciprocal Plan (see page 12), students may register for a unit of work at the University or pursue research at the University Museum.

SEMINARS AND GRADUATE COURSES

Seminar topics are determined for each semester in consultation with the graduate students. Seminars offered in recent years include the following:

Mrs. Bober

The Survival of Antiquity in the Renaissance
Roman Sarcophagi, Problems in Style and Iconography

Mr. Ellis

Archaeology of Ur
Problems of Ancient Technology
Mesopotamian and Syrian Sculpture
Syro-Hittite Art
Syro-Phoenician Metalwork and Ivories

Miss Mellink

Wall Painting in the Ancient Near East
The Early Bronze Age in Anatolia
Anatolian Architecture
Field Seminar in Anatolia
Minoan and Mycenaean Religion

Mr. Phillips

Greek Vase Painting
Corinthian Pottery
The Western Greeks
Etruscan Archaeology

Mrs. Pinney

Athens in the Seventh Century B.C.
East Greek Pottery
Greek Vase Painting
Etruria in the Sixth Century B.C.
Ancient Monumental Painting

Mrs. Ridgway

Roman Copies of Greek Sculpture
Greek Sculpture of the Fifth Century B.C.
Hellenistic Sculpture
Architecture of Magna Graecia
Julio-Claudian Sculpture

Mr. Wright

Fourth Century Peloponnesian Architecture
Minoan Burial Customs
Mycenaean Citadels
The Early Bronze Age in the Aegean
Problems in Greek Architecture

Mrs. Wright

Delos
Colonies and Cities in Roman Greece
The Near East in Hellenistic and Roman Times
Problems in Roman Pottery Trade

SELECTED UNDERGRADUATE COURSES

Incoming students with incomplete preparation in Archaeology will be advised to take selected undergraduate courses (with additional work for graduate credit) during their first years in graduate school.

201b *Egypt and Mesopotamia Before 1600 B.C.*: Mr. Ellis

203a *Greek Sculpture*: Mrs. Ridgway

203b *Hellenistic and Roman Sculpture*: Mrs. Pinney

- 205a (History) *The Ancient Near East*: Mr. Ellis
- 205b *Aegean Archaeology*: Mr. Wright
- 206a *Egyptian Archaeology*: Mr. Ellis
- 301b *Greek Vase-Painting*: Mrs. Pinney
- 302a *Greek Architecture*: Mr. Wright
- 304b *Monumental Painting*: Mrs. Pinney

Economics

Professor: Richard B. Du Boff, Ph.D., *Chairman*

Associate Professors: Noel J. J. Farley, Ph.D.
Helen Manning Hunter, Ph.D.

Lecturer: Frances E. Altvatter, A.B.

Prerequisites. An undergraduate major in Economics, with work in such related fields as History and Political Science. Superior applicants with majors in other disciplines may be admitted. Applicants must submit scores on the Aptitude Test and Advanced Tests of the Graduate Record Examinations. Students whose undergraduate training in Economics is incomplete may be required to take such undergraduate courses as the Department thinks necessary.

Allied Subjects. Most subjects in the other social sciences and in History and Philosophy are acceptable. Mathematics and statistics are necessary to advanced work in Economics.

Language Requirements. Candidates for the M.A. and Ph.D. must show reading proficiency in one modern foreign language. Candidates for the Ph.D. must in addition show either reading proficiency in a second modern foreign language or proficiency in Mathematics beyond the level required for admission to graduate seminars in Economics (i.e., beyond the level of first-year college calculus and basic linear algebra). Mathematical skills will be tested by an examination to be set by the Department. The topics to be covered will be agreed upon in advance and may vary according to the student's particular field of interest in Economics.

Language skills will be tested by examinations administered by Bryn Mawr College. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

Program and Examination for the M.A. It is expected that the work for the M.A. degree will require not less than one calendar

year of graduate study. All candidates for the M.A. degree must complete three units of formal course work (seminars, courses, and supervised units) prior to submitting the M.A. research paper. One of these units must be in economic theory, one in statistics and econometrics, and one in the student's special field of interest. Course examinations in each of these three fields must be passed before the candidate presents the research paper. After acceptance of the paper a Final Examination must be passed.

Program and Examinations for the Ph.D. Candidates for the Ph.D. will take as much formal course work as is necessary to prepare them for the Ph.D. examinations. The Preliminary Examinations will consist of four three-hour written papers and an oral examination; one of the written papers will be in microeconomic analysis and one in macroeconomic analysis; the other two papers will be in fields related to the candidate's major interest. The Final Oral will be devoted to the subject matter of the dissertation.

General Degree Requirements for the M.A. and the Ph.D. See pages 14-16.

SEMINARS

Seminars are chosen each year from the following topics:

Mr. Du Boff

American Economic Development

Economic History and Growth 1750-1970

Mr. Farley

International Economic Development

International Trade Policy

International Trade Theory

Mrs. Hunter

Econometrics

Macroeconomic Analysis

Monetary Theory and Institutions

Miss Altvatter

Corporate Financial Theory

Industrial Organization

Microeconomic Analysis

Public Finance

Education and Child Development

Professors: Janet L. Hoopes, Ph.D., *Director*
Child Study Institute
Ethel W. Maw, Ph.D., *Chairman*

Associate Professors: Susan E. Maxfield, M.S., *Director*
Phebe Anna Thorne School
Emmy A. Pepitone, Ph.D.
Faye P. Soffen, Ed.D. §

Lecturers: Ruth B. Harvey, Ph.D.
Robert H. Wozniak, Ph.D.

The program emphasizes extensive knowledge of human development in a variety of social contexts to provide the foundation for specialization in college teaching, research, and practice: child clinical development, educational psychology, school psychology, counseling, secondary education, and early childhood education. The typical program of study includes research and field experience in educational and mental health settings as well as participation in seminars.

Bryn Mawr has program approval from the Pennsylvania Department of Education for several curriculum sequences which prepare candidates for public school professions. These courses of study include teacher education in ten liberal arts fields, school psychology, and school counseling, both elementary and secondary. Students who satisfactorily complete an approved program will, on the recommendation of this Department, receive the state certificate in the appropriate field.

Prerequisites. An undergraduate preparation in the liberal arts which must include work in general psychology and statistics. Students whose undergraduate training in psychology is not adequate will be required to take such undergraduate courses as seem necessary. Applicants for admission are asked to submit scores of the Graduate Record Examination Aptitude Test and a statement of their academic plans and goals. Undergraduate grades of at least B level are necessary.

Major and Allied Subjects. The Department offers study in several areas: developmental, educational, social and clinical. The program provides for concentration in several fields within each of these

§ On partial leave 1980-81

areas based on the courses listed below. For the M.A., two fields are required. For the Ph.D., four fields which represent three of the areas must be presented. One field may be an allied field and is individually arranged. Detailed descriptions of fields are available upon request. Field examinations are given once each semester.

Language and Statistics Requirements. For the M.A., students are required to pass an examination in one modern foreign language and demonstrate a working knowledge of descriptive and inferential statistics. For the Ph.D., students are required to demonstrate a reading knowledge of one modern foreign language and competence in statistics. The statistics requirement for both degrees may be satisfied by passing the course *Foundations of Research* at a satisfactory level or by demonstrating equivalent competencies. Language skills will be tested by the examinations administered by Bryn Mawr College. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

Program and Examination for the M.A. Candidates will normally offer three units of graduate work in Education and Child Development, although one of the three may be taken in an allied field. A paper embodying the results of independent research is required. The Final Examination consists of two three-hour written examinations, one in each field offered, and a one-hour oral examination on the M.A. paper.

Examinations for the Ph.D. The Preliminary Examinations consist of four-hour written examinations in each of the fields offered and an oral examination. The Final Examination is an oral examination devoted to the dissertation and the field in which it has been written.

General Degree Requirements for the M.A. and the Ph.D. See pages 14-16.

The Phebe Anna Thorne School and the Child Study Institute. The Phebe Anna Thorne School is maintained by the Department as a laboratory nursery school for normal children where students may observe and assist in the program for three- and four-year-olds. For those preparing for teaching, medical work with children, child welfare or guidance, the school provides opportunity for direct experience with early childhood development. Students preparing for early childhood education spend substantial blocks of time in the Thorne School.

The Department also operates at the College the Child Study Institute, a mental health center where problems of learning and behavior are studied and remedial measures planned and carried

out with parents and children. The service is given by a staff of qualified specialists in child psychiatry, psychology, school counseling, and remedial teaching. Advanced students participate at various levels of responsibility. Referrals from the schools, from physicians, social agencies, and families give students the opportunity for acquaintance with a diversity of clinical material.

A separate building on the college grounds houses the Department, the Thorne School, and the Institute, with rooms equipped for nursery school teaching and for individual examination of pupils, remedial teaching, individual and group therapy, and student observation.

SEMINARS

The seminars offered are selected from the following, (In most cases, laboratory practice is required.) Some seminars are offered in alternate years; some are offered on demand.

Miss Hoopes

Clinical Evaluation

Advanced Theory and Practice in Clinical Evaluation

Assessment in Early Childhood

Mrs. Maw

Foundations of Research

Educational Psychology

Topics in Learning and Instruction

Miss Maxfield

Development in Early Childhood

Developmental Psychology

Early Childhood Education

Theory in Practice: Early Childhood Education

Mrs. Pepitone

History and Philosophy of Education

Social Theories

Family Theory

Issues in Urban Education

Research in Children's Cooperation and Competition

Instructor to be announced

Social and Personality Development

Psychological Disorders of Children

Cognitive Processes and Cognitive Development

Critical Issues in Human Development

Topics in Developmental Psychology

Mrs. Soffen

Principles and Organization of the Guidance Program
The Counseling Process: Theory and Practice
The Group Process in Counseling and Guidance
The Psychology of Occupations
Advanced Theory and Practice in Counseling and Guidance
Counseling with Families and Groups

SELECTED UNDERGRADUATE COURSES

206a *Developmental Psychology*: Mr. Wozniak

207b *Adolescent Development*: Mrs. Harvey

301a *Principles of Teaching in the Secondary School*: Mrs. Maw

Course 301a satisfies the student-teaching requirement of most states. Plans for registration should be made with Mrs. Maw in the spring before the student expects to take the course in the fall.

English

Professor: Robert B. Burlin, Ph.D.†

Associate Professors: Carol L. Bernstein, Ph.D.
Sandra M. Berwind, Ph.D., *Chairman*
Thomas H. Jackson, Ph.D.
Joseph E. Kramer, Ph.D.

Assistant Professors: Peter M. Briggs, Ph.D.
Katrin Ristkok Burlin, Ph.D.
Susan Dean, Ph.D.
E. Jane Hedley, Ph.D.‡
Eileen T. Johnston, Ph.D.
Annette Niemtzow, Ph.D.

Lecturer: Christopher Kendrick, A.B.

Prerequisites. An undergraduate major in English or its equivalent. Applicants should have had some training in at least one other discipline complementary to the study of literature in the English language. All applicants should submit scores in the Aptitude Test of

† On leave semester II

‡ On leave 1980-81

the Graduate Record Examinations and a sample of recent critical writing. Personal interviews, while not required for admission, are encouraged.

Language Requirements. It is hoped that language skills will enrich the student's work in seminars and courses. For the M.A. degree, a knowledge of either French or German adequate to the reading of scholarly and literary texts is required. For the Ph.D., the student must either pass examinations in both French and German or demonstrate superior competence in one by satisfactorily completing one unit of graduate work in that language or its literature at Bryn Mawr College. (In special cases, with the approval of the appropriate language department and of the Department of English, equivalent work at another university may be accepted.) Students working toward the doctorate are also required to have formal training in Latin or Greek. The doctoral candidate should satisfy these requirements by the beginning of the second year of graduate study; they must be satisfied before the candidate will be admitted to the Preliminary Examinations.

With the approval of the English Department, another modern language may be substituted for French or German when it can be shown to be pertinent to a projected dissertation.

Modern foreign language skills will be tested by examinations administered by Bryn Mawr College. The student also has the option of offering scores of the GSFLT. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr College.

Program and Examination for the M.A. Three units of work in English or two in English and one in an allied field. A long paper written under the supervision of a faculty member is required. The Final Examination is written, four hours in length, and on the general field of the M.A. paper.

Program and Examinations for the Ph.D. Work of the Department is carried on primarily through small seminars, supplemented by selected advanced undergraduate courses in which the special needs of graduate students are met, and, for advanced students, supervised units of independent study. Six units of graduate work are required, one of which may be in an allied field. Candidates must spend at least one year in full-time graduate work. The program must include some training in Old or Middle English or in the history of the English language.

After being accepted for doctoral candidacy, the student will take Preliminary Examinations in five parts: four written (four hours each) and one oral (one or two hours). One written examination may be in an allied field. The choice of the four fields will be

determined by the student in consultation with the graduate adviser and the departmental examiners, who will form the Supervising Committee. The candidate is expected to demonstrate a balanced knowledge of different periods.

Before proceeding with the dissertation the doctoral candidate will submit a prospectus to be discussed with the departmental members of the Supervising Committee. The Final Examination is devoted to the dissertation and the field in which it has been written.

Teaching Preparation. The Department offers an apprenticeship program in teaching available to students who have advanced beyond the M.A.

General Degree Requirements for the M.A. and the Ph.D. See pages 14-16.

SEMINARS

Seminars run for one semester. Over a two-year period, opportunity will be offered for seminar study in each of the following fields of English and American Literature.

Medieval Literature: Mr. Burlin

Literature of the Sixteenth Century: Mrs. Hedley

Shakespeare and Renaissance Drama: Mr. Kramer

Literature of the Seventeenth Century: Mr. Kendrick

Restoration and Eighteenth-Century Literature: Mr. Briggs

Fiction: Mrs. Burlin

Nineteenth-Century English Literature: Mrs. Bernstein

Mrs. Johnston

Twentieth-Century Literature: Mrs. Berwind

Mr. Jackson

American Literature: Mrs. Dean

Miss Niemtow

ADVANCED UNDERGRADUATE COURSES OPEN TO GRADUATE STUDENTS:

300 *Old English Literature:* Mr. Burlin

301 *Readings in Middle English Literature:* Mr. Burlin

315 *Sixteenth-Century Chivalric Romance:* Mrs. Hedley

323 *Forms of Renaissance Tragedy:* Mr. Kramer

325 *Shakespearean Topics:* Mr. Kramer

326 *Theater of Ben Jonson:* Mr. Kramer

333 *The Metaphysical Poets: Donne to Marvell:* Mrs. Hedley

340 *The Age of Dr. Johnson:* Mr. Briggs

352 *Romanticism and Interpretation:* Mrs. Bernstein

- 355 *Major Victorian Poets*: Mrs. Johnston
- 356 *Victorian Literature and the Religious Experience*:
Mrs. Johnston
- 358 "*Women of Talents*": Mrs. Burlin
- 363 *Walt Whitman and American Poetry*: Mrs. Dean
- 365a *American Autobiography*: Miss Niemtzw
- 365b *The American Dream*: Miss Niemtzw
- 366 *Herman Melville*: Miss Niemtzw
- 371 *The Development of Modern Poetry*: Mr. Jackson
- 375 *W. B. Yeats and Wallace Stevens*: Mrs. Berwind
- 376 *Beckett and Lawrence*: Mr. Jackson
- 383 *The Novel and Society*: Mrs. Bernstein
- 384 *Theories of Fiction*: Mrs. Bernstein
- 385 *Problems in Satire*: Mr. Briggs
- 386 *Milton and English Literary Tradition*: Mr. Briggs
- 388 *Modern Poetic Theory*: Mr. Jackson
- 389 *Studies in Twentieth-Century Criticism*: Mr. Jackson

French

Professors: Michel Guggenheim, Ph.D.
 Pauline Jones, Ph.D.†
 Catherine Lafarge, Ph.D., *Chairman*
 Mario Maurin, Ph.D.

Assistant Professors: Ullrich Langer, Ph.D.
 Margaret Simpson Maurin, Ph.D.
 Grace Armstrong Savage, Ph.D.

Prerequisites. An undergraduate major in French, based on study in school and at least three years of college French, including some advanced work in literature, with evidence of ability to present reports and carry on discussion in French. Training in Latin corresponding to at least two years' study in school is advisable.

Applicants should submit scores in the Aptitude Test and Advanced Test of the Graduate Record Examinations taken within two years of the date on which they wish to begin graduate studies at Bryn Mawr. Candidates are required to support their application by at least one essay written in French for an advanced undergrad-

† On leave semester II

uate course or graduate seminar previously taken, as well as by an essay written in English. They are strongly urged to arrange for a personal interview with a member of the Department.

Major and Allied Subjects. Students specialize in French literature from the Middle Ages to the present. Successful completion of a course in Old French philology and Medieval French literature is required of Ph.D. candidates. In special cases and with the consent of the Department, one of the following may be accepted as an allied subject: any literature, ancient or modern; comparative philology; European history; Philosophy; History of Art.

Language Requirements. For the M.A. degree, one Romance language other than French, or German, or evidence of extensive training in Medieval or advanced Latin. For the Ph.D. degree, either a reading knowledge of two modern languages (including one Romance language other than French) or superior competence in one. Students may satisfy the latter requirement by completing satisfactorily at least one unit of graduate work at Bryn Mawr in a Romance literature other than French, or in German literature. Language requirements must be fulfilled before the doctoral candidate takes the Preliminary Examinations.

Language skills will be tested by examinations administered by Bryn Mawr College. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

Program and Examination for the M.A. Candidates will offer two units of graduate work in French and a third unit in either French or an allied field. An M.A. paper on a topic related to the work in one of the seminars is required. The Final Examination consists of a three-hour written examination and a one-hour oral examination, both in French.

Admission to Candidacy for the Ph.D. After completing three full units of graduate work at Bryn Mawr, students are required to pass a qualifying examination before admission to doctoral candidacy. The paper and Final Examination required for the completion of the Bryn Mawr M.A. program may be substituted for the qualifying examination.

Program and Examinations for the Ph.D. Candidates will offer six units of graduate work, one of which may be in an allied field. Suitable related fields should be discussed with the department concerned and with the Department of French.

Students are encouraged to study and do research abroad whenever appropriate and feasible. Opportunities for summer study are

provided by the graduate courses given at the Bryn Mawr *Institut d'Etudes Françaises d'Avignon*.

The Preliminary Examinations consist of four papers written in French and an oral examination. The Final Examination is oral and is devoted to the dissertation and the field in which it has been written.

General Degree Requirements for the M.A. and the Ph.D. See pages 14-16.

SEMINARS AND GRADUATE COURSES

An introductory course in Old French philology and Medieval French literature is offered every two years. Students wishing further work in this field may register for a unit of supervised work at Bryn Mawr or attend graduate courses at the University of Pennsylvania. Graduate seminars in selected fields of French literature are given each year, so arranged that the same one will not be given in successive years. The seminars, conducted in French, are selected from the following:

Mr. Guggenheim

Rousseau et le préromantisme

Voltaire

Techniques narratives [XIX^e et XX^e siècles]

Précieux, mondains et moralistes du XVII^e siècle—semester II

Miss Jones

Vigny et Camus

Verlaine, Rimbaud

Mallarmé

Baudelaire—semester I

Miss Lafarge

Stendhal et Flaubert

Le Thème de la prison au XIX^e siècle

Marivaux, Giraudoux

Diderot

Le Roman du XVIII^e siècle—semester I

Mr. Langer

Le Baroque en France

Épopées françaises et italiennes du XVI^e siècle

Poésie lyrique de la Pléiade

Mr. Maurin

Essayistes du XX^e siècle
L'Autobiographie de Chateaubriand à Sartre
Réalisme et naturalisme
Valéry, Claudel, Proust, Gide
Romancières du XX^e siècle
Mauriac et Sartre
Le Théâtre moderne—semester II

Mrs. Maurin

La Littérature fantastique en France
Le Surréalisme

Mrs. Savage

L'Art du conte et de la nouvelle des Cent Nouvelles Nouvelles
à Flaubert
Philologie et littérature médiévales
Le Théâtre médiéval

SELECTED UNDERGRADUATE COURSES

- 301b *Poésie maniériste et baroque*: Mr. Langer
302a *Voix médiévales et échos modernes*: Mrs. Savage
303b *La Vision de la femme dans la littérature française*:
Miss Lafarge
304b *Essayistes du XX^e siècle*
306a *Autobiographies de Chateaubriand à Sartre*: Mr. Maurin
307a *Ecrivains engagés de Montaigne à Sartre*
308a *Verlaine, Rimbaud*
309a *Gide et Sartre*
310a *Techniques narratives*

Courses offered at the *Institut d'Etudes Françaises d'Avignon*:

Molière or Racine
Les Fleurs du mal or Rimbaud
Le Surréalisme
Travaux de traduction et de stylistique

Preparatory course for degree candidates in other departments:

Reading French. This course, which does not carry academic credit, is designed to assist students in meeting the language requirements for advanced degrees in fields other than French. An extra charge will be made. Specific information may be obtained from the Graduate School of Arts and Sciences during registration.

Geology

Professors: Maria Luisa B. Crawford, Ph.D.†
Lucian B. Platt, Ph.D.

Associate Professors: William A. Crawford, Ph.D.*
W. Bruce Saunders, Ph.D., *Chairman*

Lecturers: Steven R. Carson, M.A.
Earl A. Shapiro, Ph.D.

Prerequisites. A bachelor's degree in a natural science or Mathematics. Students who have not majored in Geology will be expected to make up deficiencies in their preparation during their first years of graduate study. Applicants may submit scores in the Aptitude Test of the Graduate Record Examinations.

Major and Allied Subjects. Students may specialize in geochemistry, mineralogy-petrology, paleontology-stratigraphy, or regional and structural geology. The allied subject for the Ph.D. may be either another field of Geology or any one of the other natural sciences or Mathematics; other subjects may be accepted in special cases.

Language Requirements. For the M.A. degree, one of the following: Russian, German, or French. Candidates for the Ph.D. degree may offer two foreign languages from the following: Russian, German, or French; or one language from this list and proficiency in digital computation or statistics. This proficiency will be tested by the Department or may be demonstrated by the satisfactory completion of an appropriate course.

Language skills will be tested by examinations administered by Bryn Mawr College.

Program and Examination for the M.A. At least three units of work are required, one of which will consist of a field or laboratory research project under the direction of a member of the faculty. The results of the research project must be reported in a Master's thesis. The student must also pass a Final Examination consisting of a four-hour written and a one-hour oral test.

Program and Examinations for the Ph.D. Candidates will spend a major portion of their time on a research problem; ordinarily, this

† On leave 1980-81

* On leave semester I

will involve field mapping and collecting, together with laboratory study. The number of units of course work to be taken will depend on the student's preparation. A set of Preliminary Examinations which test general knowledge in Geology, knowledge in the candidate's special field, and either an allied subject or an additional field in Geology must be passed before the student becomes deeply involved in the research project. A Final Examination follows the completion of the Ph.D. dissertation. This examination is devoted to the dissertation and the field in which it has been written.

Every graduate student in the Department is expected to assist in the work of the Department.

General Degree Requirements for the M.A. and the Ph.D. See pages 14-16.

SEMINARS AND GRADUATE COURSES

Two or three courses or seminars are offered each semester. These are usually chosen so that each is offered once every other year. The specific content of the seminars is determined by the current interests of faculty and students. Students wishing to do so may also attend graduate courses at the University of Pennsylvania under the Reciprocal Plan (see page 12).

Mr. Crawford

Geochemistry and Analytical Techniques

Selected topics in the geochemistry of the earth combined with instruction in wet chemical and instrumental means of silicate analysis.

Igneous Petrology

Selected subjects in the structure, physical chemistry, and origin of igneous rocks. Prerequisite: Geology 303a, *Thermodynamics for Geologists*, or its equivalent.

Mrs. Crawford

Metamorphism

The physical and chemical processes of metamorphism, accompanied by regional studies. Prerequisite: Geology 303a, *Thermodynamics for Geologists*, or its equivalent.

Advanced Mineralogy

The study of selected rock-forming mineral groups accompanied by instruction in optical, chemical, and x-ray techniques.

Mr. Platt

Structural Geology

Modern concepts in structural geology and theories of deformation.

Tectonics

Stratigraphic and structural relations of mountain ranges leading to analysis of their origin.

Mr. Saunders

Paleontology

Study of selected animal groups in geologic time.

Sedimentary Petrology

The constitution and the origin of sedimentary rocks; their source, transportation, and deposition.

SELECTED UNDERGRADUATE COURSES

302b *Advanced Paleontology*: Mr. Saunders

303a *Thermodynamics for Geologists*: Mr. Crawford

304 *Petrology*: Mr. Crawford, Mrs. Crawford, Mr. Saunders

305b *X-Ray Crystallography*: Mrs. Crawford

German

Professor: Hans Bänziger, Ph.D.*

Nancy C. Dorian, Ph.D.

Associate Professors: Gloria Flaherty, Ph.D.

C. Stephen Jaeger, Ph.D., *Chairman*

Assistant Professor: Susan Joan Erickson, Ph.D.†

Prerequisites. An undergraduate major or minor in German or an equivalent preparation. All applicants are requested to submit scores in the Aptitude Test and Advanced German Test of the Graduate Record Examinations. They are also encouraged to write to the Chairman and seek a personal interview with the members of the Department whenever possible.

Major and Allied Subjects. Students may specialize in either German literature, German philology, or German linguistics. One of these fields or an area in humanities, especially the literatures, may serve as the allied subject. Graduate students can acquaint themselves with the theory and practice of teaching German by close cooperation with a member of the faculty.

* On leave semester I

† On leave 1980-81

Language Requirements. Normally French for the M.A.; French and another language, preferably Latin, for the Ph.D. With the approval of the Department, the satisfactory completion of a graduate seminar at Bryn Mawr in a foreign literature other than German may be offered for one language requirement. In special cases, with the approval of the appropriate language department and of the Department of German, equivalent work at another university may be accepted.

Language skills will be tested by examinations administered by Bryn Mawr College. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

All graduate students are required to complete the Bryn Mawr M.A. Should a student have an M.A. in German from another institution, she or he will be expected to take a four-hour qualifying examination in German literature or Germanic philology or both after one full year of study and before proceeding to complete the remaining units in preparation for the Ph.D. Preliminary Examinations.

Program and Examination for the M.A. The program consists of three units in German literature and/or philology, or in German literature and philology and an allied field. In addition to providing familiarity with the field in general, the M.A. program is designed to introduce the student to various historical and critical approaches to the study of literature and language. Each student must demonstrate competence in spoken and written German. After completion of course work, each student must submit a Master's paper to the department clearly demonstrating independent research. The final examination, covering the student's general knowledge of the history of German literature, consists of a three-hour written examination and an oral examination of one hour.

Program and Examinations for the Ph.D. Every candidate must fulfill certain requirements in German literature and Germanic philology. Those majoring in Germanic philology take a minimum of one unit in German literature and will select the following courses: history of the German language, Gothic, Old High German, Middle High German, structural linguistics, and either Old English or Old Norse. Those majoring in German literature will take a minimum of one unit in Germanic philology and will normally take one unit each in the medieval, classical, and modern periods, as well as at least one genre course. The German Department encourages its students to participate in seminars given by other departments. It also encourages its students to study abroad and draws attention to the Anna Ottendorfer Memorial Research

Fellowship for study at a German university. Graduate students in German at Bryn Mawr may register for one course each semester at the University of Pennsylvania, or for one course in the area of Medieval Studies at Princeton. The Preliminary Examinations consist of four written tests, one of which must be taken in an allied field, and an oral examination. The Final Examination is devoted to the dissertation and the field in which it has been written.

General Degree Requirements for the M.A. and the Ph.D. See pages 14-16.

SEMINARS

Mr. Bänziger

Brecht and Dürrenmatt

Franz Kafka

Gottfried Keller and German Realism (1981-82)

Hofmannsthal and Rilke

Thomas Mann and Max Frisch

Miss Dorian

Comparative Germanic Grammar (on demand)

Old High German (on demand)

Miss Erickson

German Realism

The Modern German Novel (1981-82)

Miss Flaherty

Bibliography and Methods in Criticism (1980-81)

German Baroque Literature

Goethe and Schiller

Romanticism

Mr. Jaeger

Wolfram's Parzival

German Renaissance Literature (1981-82)

Middle High German Literature (1980-81)

SELECTED UNDERGRADUATE COURSES

- 300b *A Survey of German Literature*: Mr. Bänziger (1981-82)
- 301a *History of the German Language*: Miss Dorian (1981-82)
- 302a *Vernacular Literature in Medieval German*: Mr. Jaeger
(1980-81)
- 303a *Modern German Prose*: Mr. Bänziger
- 304b *The German "Novelle"*: Miss Erickson
- 305b *The Modern German Drama*: Mr. Bänziger (1980-81)

- 307b *The Literature of the Renaissance and the Reformation:*
Mr. Jaeger
308a *Introduction to Middle High German:* Mr. Jaeger
309a *History of German Theater:* Miss Flaherty (1980-81)
310b *Lessing and the Enlightenment:* Miss Flaherty (1981-82)
315a *Language Learning and Teaching:* Miss Dorian (1980-81)
(INT.)

Greek

Professor: Mabel L. Lang, Ph.D., *Chairman*

Associate Professors: Gregory W. Dickerson, Ph.D.
Richard Hamilton, Ph.D.

Prerequisites. An undergraduate major or minor in Greek, based on at least four years of college Greek, or the equivalent, with representative reading from Greek literature and history which, in the opinion of the Department, provides an adequate basis for graduate work. It is expected that all graduate students in Greek will have some knowledge of Latin. Candidates for the Ph.D. degree must first complete an M.A. degree.

Allied Subjects. Any literature, ancient or modern, ancient history, ancient philosophy, Classical Archaeology, linguistics.

Language Requirements. Latin, French, and German for both the M.A. and the Ph.D. Language skills will be tested by examinations administered by Bryn Mawr College. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

Program and Examination for the M.A. The program consists of two units of graduate work in Greek and a third unit in an allied field. Before admission to the Final Examination candidates must pass an examination in Greek sight translation and complete the M.A. paper. The Final Examination consists of a three-hour written examination on two of the fields covered by the student's seminars and an oral examination of one hour on the field of the paper.

Program and Examinations for the Ph.D. Before admission to the Preliminary Examinations candidates must pass a rigorous examination in Greek sight translation. The Preliminary Examinations consist of four written papers, one of which shall be an allied subject, and an oral examination. The fields from which the three

major papers may be selected include: epic poetry (with emphasis on Homer), lyric poetry (with emphasis on Pindar), tragedy, comedy, the orators, the historians, the Pre-Socratics, Plato, Hellenistic poetry, and various periods of Greek history, The Final Examination is devoted to the dissertation and the field in which it has been written.

General Degree Requirements for the M.A. and the Ph.D. See pages 14-16.

SEMINARS AND GRADUATE COURSES

Mr. Dickerson

Sophocles—semester I 1980-81

Aeschylus—semester I 1981-82

Mr. Hamilton

Pindar—semester II 1980-81

Euripides—semester II 1981-82

Miss Lang

Homer—semesters I and II 1980-81

Thucydides—semesters I and II 1981-82

SELECTED UNDERGRADUATE COURSES

The following undergraduate courses are open to graduate students in other fields.

101 *Herodotus and Tragedy*: Mr. Dickerson, Mr. Hamilton

102b *Homer's Odyssey*: Mr. Dickerson

201 *Plato and Thucydides; Tragedy*:

Mr. Hamilton, Mr. Dickerson

301 *Aeschylus and Aristophanes; Hesiod and Pindar*:

Mr. Dickerson, Mr. Hamilton

History

Professors: Charles M. Brand, Ph.D., *Chairman*†
Arthur P. Dudden, Ph.D.
Mary Maples Dunn, Ph.D., *Dean of*
the Undergraduate College
Elizabeth Read Foster, Ph.D.
Barbara M. Lane, Ph.D.†
J. H. M. Salmon, Lit.D.
Alain Silvera, Ph.D.
James Tanis, Th.D., *Director of Libraries*

Associate Professor: Phyllis S. Lachs, Ph.D.

Assistant Professors: Wendell Holbrook, Ph.D.
Allan Kulikoff, Ph.D.
Stephen Poppel, Ph.D.‡

Dean of the Graduate School of Arts and Sciences:
Barbara McLaughlin Kreutz, Ph.D.

Fields of Study. Master's and doctoral programs should be developed from seminars and courses available. Research for theses and dissertations should grow out of seminars and units offered by the History Department and those allied with it.

Prerequisites. A thorough undergraduate preparation in History, the humanities, and the social sciences. Students who wish to work in ancient or medieval fields must be able to read the essential ancient languages. Those planning work in modern European history or American history must have a reading knowledge of one modern language, preferably French or German, upon entrance. Those planning doctoral programs should have two languages upon entrance or acquire the second language at once. Applicants must submit scores in the Aptitude Test of the Graduate Record Examinations, and a sample of recent historical writing.

Language Requirements. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

At least one modern foreign language, to be approved by the Department, is required of M.A. degree candidates. The College language examination must be attempted before the end of the first

† On leave semester II

‡ On leave 1980-81

semester's work; the examination must be passed before the end of the following summer or before candidacy for the degree is requested, whichever is earlier.

At least two modern foreign languages, the choice of which must be approved by the Department during the student's first academic year, are required of the Ph.D. candidates. Students entering with an A.B. must attempt a College language examination before the end of the first semester's work and must pass the examination in one language before they may enter upon a third semester of work. They must attempt an examination in the second language no later than their third semester of work and must pass an examination on this second language before they may enter upon a fifth semester of work. Students entering with an M.A. must attempt examinations in both languages before the end of their first semester and must pass examinations in both before they may enter upon a third semester of work. The time limit for part-time students is determined by the academic year, not by the number of units completed. Candidates for the Ph.D. in ancient or medieval history must also demonstrate ability to read one classical language. Directors of research may also require demonstration of ability in special techniques.

In practice, since the College language examinations are scheduled toward the beginning of the second semester, proof of language facility must often be established early in the second semester of work to enable the student to enter upon a third semester of work. In addition, since financial aid decisions are made early in semester II, often before semester II language examinations are completed, students applying for financial aid for the succeeding academic year should demonstrate language competence before the end of semester I.

Program and Examination for the M.A. The program consists of three units of work in History or in History and an allied field, together with a paper and a final examination. The Final Examination is written and is usually four hours in length.

Program and Examinations for the Ph.D. All students are expected at some time to take a seminar or course in which aspects of historiography and historical method are studied. The Preliminary Examinations test the student's competence in four fields of History or in three fields of History and one field in an allied subject. For example, allied work in medieval literature, art, or philosophy is usually recommended to students of medieval history, and one of these may be offered in the Preliminary Examinations. Students whose dissertations are in American history will be required to take at least two fields in modern European history. Students specializing in English history must offer at least two fields of medieval

or modern European history for examination. The field of the projected dissertation will be included in the Preliminary Examinations. The Final Oral Examination is devoted to the dissertation and the field in which it has been written; plans for publication will also be reviewed. The department reviews each student's progress and plans for work at all stages.

General Degree Requirements for the M.A. and the Ph.D. See pages 14-16.

SEMINARS AND GRADUATE COURSES

The seminars are arranged to allow the fullest possible choice for students over a two- or three-year period of study. Normally the same seminar will not meet two years in succession. Topics listed below indicate the area in which seminars will be offered according to the needs of students and the current research interests of the faculty.

Ancient History

Students should consult pages where the offerings of the Departments of Greek and Latin are listed.

Medieval and Renaissance History

Mr. Brand

Topics in Medieval History

The Fifth and Sixth Centuries

The Twelfth Century

Venice from the Tenth through the Thirteenth Centuries

Early Modern European History

Mr. Salmon

French Political Ideas from the Wars of Religion to the Enlightenment

Mr. Tanis

The Reformed Reformation in Northern Europe

Selected Topics in Sixteenth-Century Religious Turmoil

Modern European History

Mrs. Lane

Modern Germany: National Socialism, Bauhaus

Topics in the History of Twentieth-Century Europe

Mr. Poppel

Topics in the History of nineteenth- and Twentieth-Century Europe

Mr. Silvera

The French Third Republic
Europe and the Near East
Topics in Modern European History

American and British History

Mr. Dudden

Topics in Recent American History

Mrs. Dunn

Seventeenth-Century America
Eighteenth-Century America

Mrs. Foster

Parliament in the Early Stuart Period
Social and Economic History of the Early Stuart Period
Topics in Early Modern English History

Mr. Kulikoff

Topics in American Colonial History

Mr. Tanis

Puritanism and the Great Awakening

Methodology and Historiography

Mr. Krausz

Philosophy of History—offered in the Department of
 Philosophy

Mr. Salmon

Readings in Eighteenth-Century Historiography

Mr. Tanis

Historiography of the Reformation

African and Afro-American History

Topic to be announced

SELECTED UNDERGRADUATE COURSES

300-level courses may, with additional work, be offered for graduate credit.

303 *Topics in the Recent History of the United States:*
 Mr. Dudden

304 *Topics in Revolutionary Europe, 1789-1848:* Mr. Silvera

305a *The Italian City-State in the Renaissance:* Mrs. Lane

- 307b *Medieval Cities: Islamic, Byzantine, and Western*: Mr. Brand
- 308a *The Jews in the Middle Ages*: Mr. Brand
- 315a *Victorian and Edwardian Britain*: Mrs. Lachs
- 317a *Mexico: Independence to the Present*: Mrs. Dunn
- 320a *The Rise of the Dutch Republic*: Mr. Tanis
- 320b *The Golden Age of the Netherlands*: Mr. Tanis
- 322 *Religious Forces in Colonial America*: Mr. Tanis
- 328a *Colonial Towns in North and South America*: Mrs. Dunn
- 330 *France since 1870*: Mr. Silvera
- 332 *The Civil War and Reconstruction*: Mr. Holbrook
- 335a *A History of Blacks in the American City*: Mr. Holbrook
- 335b *West African Leadership*: Mr. Holbrook
- 360 *England under the Tudors and Stuarts*: Mrs. Foster
- 362 *France, 1559-1661*: Mr. Salmon
- 370b *The Great Powers and the Middle East*: Mr. Silvera
- 375b *Topics in the Renaissance*: Mr. Salmon
- 393b *Self-Portrait of England in the Sixteenth and Seventeenth Centuries*: Mrs. Foster

History of Art

Professor: James Snyder, M.F.A., Ph.D.

Associate Professor: Dale Kinney, Ph.D., *Chairman*

Assistant Professor: Steven Z. Levine, Ph.D.

Lecturer: Betsy Rosasco, Ph.D.

Professor of Classical and Near Eastern Archaeology and of History of Art: Phyllis Pray Bober, Ph.D.

Field of Study. The history of Western art from early Christian to modern times.

Prerequisites. The normal prerequisite for admission is undergraduate training in art history, but students with special abilities or sound training in cognate disciplines are occasionally admitted. All applicants must submit scores in the Aptitude Test of the Graduate Record Examinations.

Allied Subjects. History, Archaeology, classics, modern languages; others, exceptionally, by arrangement.

Language Requirements. Students are expected to read or to be learning the languages necessary for their special fields of study and not to delay their research by lack of linguistic competence. Advanced study of Western art history normally involves a working knowledge of Latin, French, German, and Italian. Both M.A. and Ph.D. candidates are required to prove by examination their knowledge of two languages other than their own, to be approved by the Department.

Language skills will be tested by the examinations administered by Bryn Mawr College. Entering students may offer scores of the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

Program and Examination for the M.A. (a) Three units of graduate work, one of which may be in an allied field, (b) an extended paper on an approved topic, (c) written [or written and oral] examination to test the candidate's ability to place this topic in its art-historical context.

Program and Examinations for the Ph.D. Prime emphasis is placed on a program of study and research leading to the dissertation, and students normally begin to work under a personal supervisor soon after entry. The Preliminary Examinations consist of four written papers and an oral examination on four areas of art history (or on three of these and one allied subject). After two or three years at Bryn Mawr, students normally go abroad for a period of research on their dissertations.

General Degree Requirements for the M.A. and the Ph.D. See pages 14-16.

Kress Program. The Department participates in the Samuel H. Kress Foundation Fellowship Program.

SEMINARS AND GRADUATE COURSES

Four or more one-term seminars are given annually, on topics that change from year to year, in addition to units of supervised individual study or research. Recently offered seminars include:

Liturgy and Architecture

Early Christian and Byzantine Syria

The Art and Influence of Montecassino

Illustrated Psalters

Early Dutch Painting

Dutch Paintings from Geertgen to Heemskerck

Carel van Mander's Het Schilder-boeck

Medieval and Renaissance Drawing

The Patronage of Julius II
Leon Battista Alberti
Michelangelo
Problems in the Reform of Italian Art, 1550-1600
Selected Topics in Baroque Painting
Venetian Eighteenth-Century Painting
French Eighteenth-Century Painting
Monet and Impressionism
Cezanne
Contemporary Spanish Painting

TOPICS FOR 1980-81:

Mrs. Bober
Antiquity and the Renaissance
Mrs. Kinney
Problems in Medieval Italian Art
Mr. Levine
Topics in Modern Art
Miss Rosasco
Topics in Baroque Art
Mr. Snyder
Late Gothic Painting

SELECTED UNDERGRADUATE COURSES

310b *Topics in Early Medieval Art*: Mrs. Kinney
320a *Problems in Netherlandish Art*: Mr. Snyder
340a *Problems in Renaissance and Baroque Iconography*:
Miss Rosasco
350a *Topics in the History of Modern Architecture*: Mrs. Lane
INT (see INT. 350 in undergraduate Interdepartmental Courses)
360b *Topics in Modern Art*: Mr. Levine

History of Religion

Professor: Samuel Tobias Lachs, Ph.D., D.D.
Professor of History: James Tanis, Th.D., *Director of Libraries*
and Professor of History of Religion
Visiting Lecturer: Patrick Henry, Ph.D.

A degree program at the graduate level is not offered in History of Religion. For work in this area, students should consult the offerings of the Department of History. The courses listed below are open to graduate students and, with additional work, may be taken for graduate credit with permission of the major department.

210b *Jewish Ethics and Theology*: Mr. Lachs

300b *Studies in Early Rabbinic and Medieval Judaism*: Mr. Lachs

212a *Christianity and Classical Culture*: Mr. Henry

Italian

Associate Professors: Nancy Dersofi, Ph.D.

Nicholas Patruno, Ph.D., *Chairman*

No graduate program is offered in Italian. The courses listed below are open to graduate students and may be taken for graduate credit with the permission of the major department.

301a *Dante*

303a *Petrarch, Boccaccio, and the Early Humanists*

303b *Literature of the Italian Renaissance*

305a *Arcadia and Enlightenment*

305b *History of the Italian Theater*

Latin

Professors: Russell T. Scott, Ph.D., *Chairman*

Myra L. Uhlfelder, Ph.D.

Associate Professor: Julia H. Gaisser, Ph.D.

Prerequisites. An undergraduate major or minor consisting of at least three years of Latin in college. All graduate students in Latin are expected to have begun the study of Greek. Scores in the Aptitude Test of the Graduate Record Examinations should be submitted.

Allied Subjects. The Department recommends as allied subjects: Greek, Classical Archaeology, ancient history, linguistics, or, for

students whose special interest is in the medieval period, medieval history or a vernacular literature.

Language Requirements. French and German are required for both the M.A. and Ph.D. Language skills will be tested by examinations administered by Bryn Mawr College. Candidates for advanced degrees must also demonstrate satisfactory competence in Latin composition by examination or course work.

Program and Examination for the M.A. Candidates will normally offer two units of work in Latin and one unit in an allied field. Students will normally complete the work for the degree in one year, but, in cases in which it seems advisable to supplement the student's undergraduate preparation, a second year may be necessary. Candidates must pass a test in Latin sight translation before being admitted to the Final Examination, which consists of a three-hour written and a one-hour oral examination.

Program and Examinations for the Ph.D. Candidates will normally complete a two-year program of four units of work in Latin and two in an allied field. Three of these units may be offered for the M.A. degree, which usually forms part of the doctoral program. Candidates should then undertake a program of independent reading planned to enable them to pass the Preliminary Examinations as soon as possible, after which they will concentrate on the dissertation. In some cases it may be advisable to carry one or two more units of work in the third year. The Preliminary Examinations consist of two four-hour written papers on Latin literature; one four-hour written paper on a special field such as a particular period of Roman history, the works of a special author, Medieval Latin literature, epigraphy, palaeography, or the history of classical scholarship; one four-hour written paper in the field of the allied subject and a general oral examination. Students whose major interest is in the medieval period will take the two examinations in Latin literature, one in Medieval Latin literature, and a fourth in a field related to the Middle Ages or to the transmission of the classics. Before admission to the Preliminary Examinations, all students must pass tests in sight translation of Latin and Greek. The Final Examination is devoted to the dissertation and the field in which it has been written.

General Degree Requirements for the M.A. and the Ph.D. See pages 14-16.

SEMINARS AND GRADUATE COURSES

Over a period of a few years, seminars will afford the student opportunity to work in specific areas of classical (Republican and

Imperial) and medieval literature and civilization. Authors, genres, periods, or special topics dealt with in the seminars will vary according to the needs and desires of graduate students. A balance of prose and poetry, of literature and history, and of earlier and later periods is kept in mind in the establishment of the program.

The following seminars are offered in 1980-82:

Mrs. Gaisser

The Alexandrian Tradition in Latin Poetry—semester I

Mr. Scott

Livy: Early Rome—semester II

Miss Uhlfelder

Imperial Literature—semesters I and II

1980-81

Mrs. Gaisser

Elegy and Horace—semester II

Mr. Scott

Tacitus—semesters I and II

Miss Uhlfelder

Latin Style—semester I

1981-82

Mrs. Gaisser

Lucretius and Vergil—semesters I and II

Mr. Scott

Roman Satire—semester II

Miss Uhlfelder

Apuleius—semester I

SELECTED UNDERGRADUATE COURSES

202a,b *Medieval Latin Literature*: Miss Uhlfelder

301a *Livy and Tacitus*: Mr. Scott

301b *Vergil's Aeneid*: Mrs. Gaisser

302a *Lucretius*: Miss Uhlfelder

302b *Cicero and Caesar*: Mr. Scott

Mathematics

Professors: Frederic Cunningham, Jr., Ph.D., *Chairman*
Mario Martelli, Ph.D.

Assistant Professor: Rhonda J. Hughes, Ph.D.

Prerequisites. A good undergraduate preparation in Mathematics or in Mathematics and Physics.

Major and Allied Subjects. Students may specialize in any of the broad divisions of Mathematics: algebra, analysis, geometry, or applied mathematics but are expected also to acquire a well-rounded knowledge of the subject as a whole. Certain courses in Physics, Chemistry, or Philosophy (logic) are accepted as allied work.

Language Requirements. Candidates for the M.A. must have a reading knowledge of French, German, or Russian. Candidates for the Ph.D. must pass examinations in two of the three: French, German, Russian.

Language skills will be tested by examinations administered by Bryn Mawr College. Entering students may offer scores of the GSFLT taken within twenty-four months of the date on which they begin graduate work at Bryn Mawr.

Program and Examination for the M.A. The program consists of three units of work in Mathematics, or in Mathematics and an allied field, and an M.A. paper. Advanced undergraduate courses which supplement the student's preparation may under certain conditions be taken for graduate credit. The Final Examination is usually oral and one hour in length.

Program and Examinations for the Ph.D. Candidates will take such courses and seminars as are needed to provide a sufficiently broad foundation. As they progress they will devote an increasing portion of their time to individual study and research under the direction of a member of the Department. The Preliminary Examinations are taken after the student is well advanced and usually consist of three or four written examinations intended to test the candidate's breadth of knowledge and understanding of the structure of Mathematics as a whole. An oral examination is usually included. The Final Examination is oral and is devoted to the candidate's special field and the subject of the dissertation.

General Degree Requirements for the M.A. and Ph.D. See pages 14-16.

SEMINARS AND GRADUATE COURSES

The work of the graduate program consists primarily of reading and research under the direction of members of the department. Seminars are offered in selected topics as justified to meet the needs and interests of sufficient numbers of students. Students are also encouraged to take advantage of the reciprocity agreement to take a course at the University of Pennsylvania.

Mr. Cunningham

Real and Complex Analysis

Functional Analysis

General Topology

Linear Spaces

Harmonic Analysis

Mr. Martelli

Real and Complex Analysis

Differential Equations

Dynamical Systems

Applied Mathematics

Non-linear Functional Analysis

Mrs. Hughes

Real and Complex Analysis

Measure Theory

Banach Algebras

Linear Operators

Mathematics of Quantum Physics

SELECTED UNDERGRADUATE COURSES

301 *Advanced Calculus*

303a *Introduction to Abstract Algebra*

303b *Topics in Algebra*

308 *Introduction to Applied Mathematics*

309b *Dynamical Systems*

310 *Theory of Functions of a Complex Variable*

311 *Differential Equations*

312 *Topology*

320 *Real Analysis*

Music

Professor: Isabelle Cazeaux, Ph.D., Chairman

Applications are no longer being accepted for graduate study leading to a degree in Music. Graduate seminars and approved courses may be taken for graduate credit with the permission of the major department.

SEMINAR AND GRADUATE COURSE

Miss Cazeaux

Subject to be announced

SELECTED UNDERGRADUATE COURSES

Undergraduate courses taken for graduate credit require additional work.

302 *Medieval, Renaissance and Baroque Music*: Miss Cazeaux

307a *Music Criticism*: Miss Cazeaux

310a *Bibliography and Research*: Miss Cazeaux

306b *Opera and Music Drama*: Miss Cazeaux

Philosophy

Professors: José María Ferrater Mora, Lic. Fil., Ph.D.

George L. Kline, Ph.D., Chairman

Jean A. Potter, Ph.D.†

Associate Professors: Michael Krausz, Ph.D.

George E. Weaver, Jr., Ph.D.

Assistant Professors: Robert J. Dostal, Ph.D.

Richard H. Gaskins, Ph.D., J.D.

Associate Professor of Political Science:

Stephen G. Salkever, Ph.D.

Visiting Lecturer: David Lachterman, Ph.D., Swarthmore College, semester II, 1980-81‡

†On leave semester II

‡Under a faculty exchange program with Swarthmore and Haverford Colleges

Prerequisites. In general, an undergraduate major in Philosophy. Students whose undergraduate training does not include a major in Philosophy may be required to take such undergraduate courses as the Department considers necessary. All applicants are required to submit scores in the Aptitude Test of the Graduate Record Examinations.

Allied Subjects. Subjects in most fields of the humanities, mathematics, and natural and social sciences.

Language Requirements. One modern language for the M.A., French and German for the Ph.D. At the discretion of the Department, another language may be substituted for French or German when the student's research requires it.

Language proficiency will be tested by examinations administered by Bryn Mawr College. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

Program and Examination for the M.A. Three units of work in Philosophy or in Philosophy and an allied field. The Final Examination is usually written and four hours in length.

Program and Examinations for the Ph.D. All students must demonstrate competence in logic before receiving the Ph.D. This requirement may be met in several ways: by successful completion, before admission to candidacy, of an intermediate course or graduate seminar in logic; or by special examination before admission to candidacy; or by passing a preliminary examination in the systematic field of logic. The Preliminary Examination will consist of four written examinations, two of which are to be in systematic fields and two in authors or periods.

General Degree Requirements for the M.A. and Ph.D. See pages 14-16.

Graduate Philosophy Colloquium. Graduate students are encouraged to participate in the monthly meetings of the Graduate Philosophy Colloquium. Papers are read by faculty and students of Bryn Mawr as well as visiting lecturers. In addition, both the Fullerton Club and the Philadelphia Logic Colloquium hold their monthly meetings at Bryn Mawr and the graduate students are invited to attend.

SEMINARS

Mr. Dostal

Phenomenology: Husserl, 1980-81

Kant: Critique of Pure Reason and Critique of Judgment

Heidegger

Hermeneutics

Mr. Ferrater Mora

Foundations of Contemporary Epistemology and Ontology,
1980-81

Mr. Kline

Ethics, 1980-81

Hegel: Phenomenology of Spirit and Philosophy of Right,
1981-82

Whitehead

Mr. Krausz

Aesthetics, 1980-81

Philosophy of History, 1981-82

Philosophy of Science

Metaphysics and Epistemology

Miss Potter

Continental Rationalism, 1981-82

Medieval Philosophy

Philosophy of Religion

History of Philosophic Concepts

Mr. Salkever

Aristotle, semester I 1980-81

Political Philosophy

Mr. Weaver

Logical Theory, 1980-81

Introduction to Mathematical Logics, 1981-82

Homogeneous Universal Models

Mr. Lachterman

Plato: Late Dialogues, semester II 1980-81

Mr. Lacey

Philosophy of Psychology, semester I 1981-82

Mr. Bernstein

Philosophy of Social Theory, semester II 1981-82

SELECTED UNDERGRADUATE COURSES

1980-81

312b *Philosophy of History*: Mr. Krausz

313b *Contemporary Philosophy*: Mr. Ferrater Mora

315a *Concepts of Time*: Mr. Kline

316a *History and Philosophy of Mathematics*: Mr. Weaver

317a *Philosophy of Creativity*: Mr. Krausz

330a *Kant: Critique of Pure Reason*: Mr. Dostal

331b *Hegel*: Mr. Dostal

AT UNIVERSITY OF PENNSYLVANIA

History 438 *Russian Thought and Culture: Varieties of Russian Marxism to 1917*: Mr. Kline, semester II

1981-82

- 310 *Philosophy of Science*: Mr. Krausz
- 311 *Philosophy of Religion*: Miss Potter
- 318 *Philosophy of Language*: Mr. Weaver
- 322 *The Nature of Legal Reasoning*: Mr. Gaskins
- 333 *Russian Philosophy*: Mr. Kline

Physics

Professors: Rosalie C. Hoyt, Ph.D.
John R. Pruett, Ph.D.

Associate Professor: Alfonso M. Albano, Ph.D., *Chairman*

Assistant Professors: Neal B. Abraham, Ph.D.
Peter Beckmann, Ph.D.†

Fields of Study and Research. The graduate program is designed to give students a broad background in physics and a high degree of expertise in a chosen field of research. Seminars and original research are tailored to meet individual needs and goals, which can include interdisciplinary studies, teaching, and applied research, as well as pure research in theoretical and experimental physics. In theoretical physics, the present research activities in the department involve non-equilibrium thermodynamics, nuclear and electron spin interactions, solid-solid phase transitions, photon statistics and gas laser theory, and the structure and function of biomembranes and other systems using computer modeling techniques. In experimental physics, present activities include nuclear spin relaxation studies in molecular solids using pulsed nuclear magnetic resonance, high-gain laser amplifiers and studies of amplified spontaneous emission in lasers, and nuclear spectroscopy using directional and polarization correlation techniques. Using the Plan for the Coordination of the Sciences there are special opportunities for research and training in such areas as chemical physics, biophysics, and geophysics. See page 89.

† On leave 1980-81

Prerequisites: An undergraduate major in Physics or in a field of study closely allied to Physics (e.g., Mathematics, Chemistry, Engineering). Students who have not majored in Physics will usually find it necessary to take some undergraduate courses before entering graduate courses and seminars. All applicants for admission to graduate work in Physics are requested to submit scores in the Aptitude Test and Advanced Test of the Graduate Record Examinations.

Language Requirements. For both the M.A. and the Ph.D. degrees, one language is required, normally French, German, or Russian. Language skills are tested by examinations administered by Bryn Mawr College.

Computer Skills Requirement. For both the M.A. and the Ph.D. degrees, proficiency is required in the use of a modern computer language approved by the Department. Computer skills are tested by examinations administered by Bryn Mawr College.

Qualifying Examination. An oral qualifying examination must be passed by all graduate students. The subject matter of the examination, which is normally taken in the first semester of graduate work, will include only material ordinarily covered in undergraduate physics courses.

Program and Examination for the M.A. The qualifying examination discussed above must be taken during the first year. The three units of work offered for the degree must include the quantum mechanics course and will ordinarily include one unit of experimental physics. The paper will usually consist of a report on a special field related to one of the seminars or units of graduate work offered for the M.A. The M.A. Examination is a one-hour oral examination.

Program and Examinations for the Ph.D. Each student is normally expected to have completed the graduate courses in Quantum Mechanics and Electromagnetic Theory, or their equivalents, must have a mathematical preparation acceptable as adequate for the Ph.D. degree, and must have passed the oral qualifying examination described above before being recommended for candidacy.

The Preliminary Examinations are intended to test the candidate's general background and to determine whether it is broad and deep enough to serve as a preparation for original research work in a specialized field. In general, two years of full- or part-time graduate work should prepare the student for these examinations, and candidates for the Ph.D. are urged to submit themselves for examination at this stage of their work. The examinations will consist of three four-hour written examinations, one problem set, and an oral

examination lasting approximately one hour. The three four-hour examinations will cover the following fields of Physics: classical mechanics, special relativity, electromagnetic theory, optics, quantum mechanics, atomic physics, molecular physics, solid state physics, nuclear physics, thermodynamics and statistical mechanics. The student devotes approximately twelve hours to direct work on the problem set over a three-day period. Any books, periodicals, notes, etc., may be used in connection with the problem set. The oral examination is devoted to general Physics.

Unless the candidate has demonstrated adequate acquaintance with experimental physics in other ways, either the research leading to the dissertation must be, at least in part, experimental or the candidate must take a seminar in experimental physics. The Final Examination will be devoted to the dissertation and the field in which it has been written.

General Degree Requirements for the M.A. and Ph.D. See pages 14-16.

Colloquium. All members of the Department, including graduate students, meet weekly for the discussion of current problems.

GRADUATE COURSES

Year long (1 unit) graduate courses in quantum mechanics and electromagnetic theory are offered every year. Although both are normally taken in the first year, one or, if necessary, both may be delayed a year if it is felt that the student requires prior work at the level of advanced undergraduate courses. Students who have taken equivalent graduate courses elsewhere may be exempted.

Quantum Mechanics

Mathematical formalism of matrix and wave mechanics; the Schroedinger, Heisenberg, and Interaction Approaches; time-independent and time-dependent perturbation theory; semi-classical theory of radiation; the density matrix; Dirac's relativistic wave equation.

Electromagnetic Theory

Electrostatics, magnetic fields of constant currents, Maxwell's equations and their applications, electromagnetic fields of time-varying currents and of moving charges and radiation of electromagnetic waves.

SEMINARS

The seminars reflect both the research activities of the faculty and the research interests of the students. As a result, contents are flexible and are chosen to satisfy the needs of individual students and to

incorporate recent developments in each field. Seminars may cover either one or two semesters (1/2 or 1 unit). Those listed below are intended only to be representative, offerings in any given year being determined by student needs. Under the Reciprocal Plan, students may also take graduate courses at the University of Pennsylvania. See page 12.

Mr. Abraham

Quantum Optics

Laser Physics

Mr. Albano

Statistical Mechanics

Non-equilibrium Thermodynamics

Advanced Quantum Mechanics

Mr. Beckmann

Solid State Physics

Magnetic Resonance

Miss Hoyt

Topics in Biophysics

Molecular and Chemical Physics

Use of Group Theory in Physics

Mr. Pruett

Nuclear Physics

Molecular Physics, with applications to biomembrane structure and function

Members of the Department

Experimental Physics

Mathematical Physics

SELECTED ADVANCED UNDERGRADUATE COURSES

308a *Advanced Classical Mechanics*

309b *Advanced Electromagnetic Theory*

310b *Mathematical Physics*

Political Science

The Caroline McCormick Slade Department of Political Science

Professors: Melville T. Kennedy, Jr. Ph.D.

Gertrude C. K. Leighton, A.B., J.D.

Marc Howard Ross, Ph.D., *Chairman*

Associate Professors: Charles E. Frye, Ph.D.

Stephen G. Salkever, Ph.D.

Prerequisites. A good undergraduate training in Political Science and related subjects. Scores of the Graduate Record Examination Aptitude Test and Advanced Test are required in applications for admission.

Major and Allied Subjects. The major fields offered in Political Science are political philosophy and theory, Western comparative politics, non-Western comparative politics, American political process, political behavior, American constitutional law, and international politics and law. Allied fields may be chosen in the other social sciences, in History and Philosophy, and, with the special permission of the Department, in certain subjects in literature. Candidates for the Ph.D. are expected to prepare themselves in four fields, one of which may be allied.

Language Requirements. One modern foreign language or statistics for the M.A. Two foreign languages (only one need be modern) or one modern language and statistics for the Ph.D. Language skills will be tested by examinations administered by Bryn Mawr College. The statistics requirement may be satisfied by passing an approved course in statistics, or through an examination.

Program and Examination for the M.A. The program consists of three units of work in Political Science, but a unit from an allied field may be substituted for one of these. The Final Examination will be written or oral or both.

Program and Examinations for the Ph.D. Candidates are expected to offer four fields, one of them being the field in which the dissertation is written. These fields are tested by written and oral Preliminary Examinations. An oral Final Examination will be devoted to the dissertation and the field in which it has been written.

General Degree Requirements for the M.A. and the Ph.D. See pages 14-16.

SEMESTER SEMINARS

The following one semester seminars are offered on demand.

Mr. Frye

European Comparative Politics

Intellectuals in Comparative Perspective

Mr. Kennedy

International Politics

Topics in Politics of China, Japan, India

Miss Leighton

Aspects of Political Behavior

International Law

Jurisprudence

Mr. Ross

American Politics: Political Behavior

Community Politics

Public Policy

Mr. Salkever

Aristotle

Political Philosophy

SELECTED UNDERGRADUATE COURSES

218b *Community Politics*: Mr. Ross

221b *International Law*: Miss Leighton

230b *Political Behavior*: Mr. Ross

301b *Law Society*: Miss Leighton

302b *Law, Policy, and Personality*: Miss Leighton

303a *Problems in International Politics*: Mr. Kennedy

305b *European Fascism*: Mr. Frye

311b *Theory and Practice in Political Philosophy*: Mr. Salkever

312b *Problems in Modernization*: Mr. Kennedy

313b *Problems in Constitutional Law*: Mr. Salkever

315b *Political Authority and Decision Making*: Mr. Ross

317a *Political Culture and Political Leadership*: Mr. Frye

318b *Urban Political Conflict*: Mr. Ross

327a *Political Philosophy in the 20th Century*: Mr. Salkever

328a *United States Policy in Asia*: Mr. Kennedy

Psychology

Professors: Richard C. Gonzalez, Ph.D., *Chairman*
Howard S. Hoffman, Ph.D.
Matthew Yarczower, Ph.D.

Associate Professors: Clark McCauley, Jr., Ph.D.
Earl Thomas, Ph.D.

Assistant Professor: Virginia Mann, Ph.D.

Prerequisites. Undergraduate training in Psychology is recommended, but outstanding applicants with training only in related fields may be accepted. Students who have not majored in Psychology as undergraduates may find it necessary to devote a substantial portion of the first year to undergraduate courses. All applicants must submit scores on the Aptitude Test and Advanced Test of the Graduate Record Examinations.

Major and Allied Subjects. The orientation in the various fields is experimental, and there are no facilities for clinical training. Work in Psychology may be coordinated with work in one of the following allied areas: Anthropology, Biology, Chemistry, Mathematics, Philosophy, and Physics.

Language Requirements. Candidates for the M.A. must pass an examination in one of the following languages: French, German, Russian, Spanish. Candidates for the Ph.D. must offer two foreign languages: French and German (or some other foreign language with permission of the Department) or one foreign language and statistics. The statistics requirement will be tested by the Department. Language skills will be tested by the examinations administered by Bryn Mawr College.

Program and Examination for the M.A. The program of work must include three units (six one-semester seminars or courses) which usually will be chosen from the group of seminars and courses listed below. Before final approval of the Master's paper, each candidate must pass a written examination in statistics. The Final Oral Examination, one hour in length, deals with the Master's paper and related topics.

Program and Examinations for the Ph.D. Ph.D. candidates are expected to devote a large portion of their time to supervised research. In the first year, the research is done under the close supervision of the candidate's faculty advisor; a written report of the year's research activities (the form and content of which are deter-

mined by the candidate and his advisor) is submitted to the Department, and an oral presentation based on the report is made to the faculty and graduate student members of the Department. In addition to research, candidates, in their first two years of residence, take the six one-semester graduate courses listed below (or, if they elect to do so, a written examination in the subject matter instead of any one or all of the courses). The Preliminary Examinations, which should be taken early in the third year, consist of three written area-examinations of four hours each and a paper which either (a) synthesizes a major area of research in psychology or (b) develops a theoretical analysis of a major problem or issue in psychology. The three area-examinations must be completed within four weeks; the entire set of examinations (including the paper) must be completed within six months. The three four-hour examinations are in the following areas: learning and motivation, physiological psychology, social psychology, developmental psychology, or, with the approval of the Department, in two of these areas and in one of the allied subjects listed above. (The area of comparative psychology as such is not represented in a separate examination; comparative issues are treated in each of the other area-examinations.) The topic of the paper is developed initially by the student and his advisor and submitted to the Department for approval.

General Degree Requirements for the M.A. and the Ph.D. See pages 14-16.

GRADUATE COURSES

Mr. Gonzales

Learning Theory

Mr. Hoffman

Statistics

Mr. McCauley

Experimental-Social Psychology

Mr. Thomas

Physiological Psychology

Miss Mann

Developmental Psychology

Mr. Yarczower

Comparative Psychology

SEMINARS

Seminars are offered on specialized topics in the areas of experimental, comparative, developmental, physiological, and social

psychology. Among those offered most recently are the following: *Communication Theory, Experimental Design, Current Literature in Behavior Theory, Physiological Techniques and Instrumentation, Psychopharmacology, Stimulus Control of Behavior, Aversive Control, Neurophysiology of Reward and Punishment, Comparative Neuroanatomy, Sensory Processes, Psycholinguistics.*

SELECTED UNDERGRADUATE COURSES

- 201a *Learning Theory and Behavior*: Mr. Gonzalez
- 202b *Comparative Psychology*: Mr. Yarczower
- 204a *Sensory Processes*: Mr. Hoffman
- 207b *Psychology of Reading*: Miss Mann
- 302b *Physiological Psychology*: Mr. Thomas
- 303b *Psychopharmacology*: Mr. Thomas

Russian

Associate Professors: Dan E. Davidson, Ph.D., *Chairman*
Ruth L. Pearce, Ph.D.

Assistant Professor: George S. Pahomov, Ph.D.

Professor of Philosophy: George L. Kline, Ph.D.

Prerequisites. An undergraduate major in Russian or an equivalent preparation with some work in literature. Applicants should submit scores in the Aptitude Test of the Graduate Record Examinations, a brief biography written in Russian, and at least one essay written in English on a literary topic. The English essay may have been written for an advanced undergraduate course or graduate seminar previously taken.

Allied Subjects. Any language or literature, economics, Russian history, Political Science, Russian philosophy.

Language Requirements. For the M.A., French or German. For the Ph.D., French, German, and one Slavic language other than Russian. Language skills will be tested by examinations administered by Bryn Mawr College. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

Program and Examination for the M.A. Three units of work in Russian or in Russian and an allied field. The Final Examination

consists of a three-hour written examination and an oral examination of one hour.

Examinations for the Ph.D. The Preliminary Examinations consist of four written papers, one of which must be taken in an allied field, and an oral examination. The Final Examination will be devoted to the dissertation and the field in which it has been written.

General Degree Requirements for the M.A. and the Ph.D. See pages 14-16.

SEMINARS AND GRADUATE COURSES

Seminars offered each year are selected in accordance with the needs and interests of the students enrolled. Normally the same seminar is not given in two successive years. In cooperation with the Department of Slavic Languages of the University of Pennsylvania, the student may also register at that institution under the Reciprocal Plan (see page 12) for a unit of work chosen from the graduate courses offered in Slavic. Undergraduate 300-level courses, with additional work, may also be offered for graduate credit.

Mr. Davidson

Karamzin and Early Romanticism

Old Russian Literature

Russian Language: Structure and Teaching Methodology

Russian Prose of the Early Modern Period

Versification

Mr. Pahomov

Chekhov

Classics of Russian Drama from Fonvizin to Chekhov

Russian Romanticism

The Russian Short Story: Karamzin to Chekhov

Turgenev and Goncharov

Mrs. Pearce

History of the Development of the Russian Literary Language

History of the Russian Language: Phonology and Morphology

Old Church Slavic: Phonology and Morphology

Readings in Old Church Slavic

Studies in the Structure of Russian

Mr. Kline

Theory and Practice of Literary Translation

SELECTED UNDERGRADUATE COURSES

- 303 *Twentieth-Century Russian Literature*
 305 *Advanced Russian Grammar*
 306 *Russian Prose and Poetry of the Nineteenth Century*
 Philosophy 333b *Russian Philosophy*

Cooperation with the University of Pennsylvania. Attention is drawn to the graduate courses offered by the Department of Slavic Languages at the University of Pennsylvania. Students wishing to do so may register for a unit of work at the University under the Reciprocal Plan (see page 12).

Sociology

Professors: Judith R. Porter, Ph.D.
 Eugene V. Schneider, Ph.D., *Chairman*

Associate Professor: Robert E. Washington, Ph.D.

Assistant Professor: Sheila Kishler Bennett, Ph.D.†

Prerequisites. An undergraduate preparation in Sociology or some closely related social science is desirable. Students whose undergraduate training is not entirely adequate may be required to take certain undergraduate courses.

Major and Allied Subjects. Students may wish to take some work in related fields: anthropology, economics, psychology, political science, history, and statistics. In addition, courses in sociology and allied subjects may be taken at the University of Pennsylvania under the terms of the Reciprocal Plan (see page 12).

Language and Statistics Requirements. Candidates for the M.A. must offer one modern foreign language and statistics. Candidates for the Ph.D. degree must offer two modern foreign languages (usually French and German) or one modern foreign language and statistics. The statistics requirement will be tested by the Department or may be met by passing a graduate course in statistics.

Language skills will be tested by the examinations administered by Bryn Mawr College. Entering students may offer scores of the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service taken within twelve months of the date on which they begin graduate work at Bryn Mawr College.

† On leave 1980-81

Program and Examination for the M.A. The program consists of three units of work. The Final Examination may consist of one four-hour written paper, or one three-hour written paper and an oral examination of one hour.

Program and Examinations for the Ph.D. The Preliminary Examinations for candidates for the Ph.D. will consist of four three-hour written papers and an oral examination of one hour. These examinations will be in general sociology, sociological theory, and two special fields, one of which may be an allied field. The Final Examination will be devoted to the dissertation and the field in which it has been written.

General Degree Requirements for the M.A. and the Ph.D. See pages 14-16.

SEMINARS

Seminars will be given in special branches of Sociology, such as:

*Sociological Theory
Social Stratification
Sociology of Religion
Personality and
Social Structure
Sociology of Knowledge
Industrial Sociology
Causal Analysis
Race Relations*

*Sociology of Poverty
Political Sociology
Sociology of Developing
Countries
Sociology of the Family
Social Change
Research Design and
Statistical Analysis
Measurement*

UNDERGRADUATE COURSES

Under exceptional circumstances a student may be registered for an advanced undergraduate course which with additional work may be accepted for graduate credit.

Spanish

Professors: Joaquín González-Muela, *D. en Fil.*
Willard F. King, *Ph.D., Chairman*

Associate Professor: Eleanor K. Paucker, *Ph.D.*

Assistant Professor: Enrique Sacerio-Garí, *Ph.D.*

Professor of Philosophy: José María Ferrater Mora, *Lic. Fil., Ph.D.*

Prerequisites. An undergraduate major in Spanish (or the equivalent) which includes representative reading from both Spanish-American and peninsular Spanish literature. Applicants for admission in Spanish are asked to submit scores on the Aptitude Test and Advanced Test of the Graduate Record Examinations. They should submit one essay written in Spanish for an advanced undergraduate course and are strongly advised to arrange for a personal interview with a member of the Department.

Major and Allied Subjects. Students may specialize in any period of Spanish or Spanish-American literature. All Ph.D. candidates must complete one course in the history of the Spanish language. The following allied subjects are accepted: any literature, ancient or modern; European or Spanish-American history; classical or Romance philology; history of art.

Language Requirements. For the M.A., either German or one Romance language other than Spanish. For the Ph.D., German and French; in special cases the Department may accept other languages. The Ph.D. candidate's preparation must give evidence of adequate knowledge of Latin; if it does not, Latin must be included in the graduate program.

Language skills will be tested by examinations administered by Bryn Mawr College. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

Program and Examination for the M.A. The program consists of three units of graduate work in Spanish or two units of graduate work in Spanish and one other in an allied field. An M.A. paper on a topic related to the work in one of the seminars is required. The Final Examination consists of a three-hour written section and an oral of one hour, both in Spanish.

Program and Examinations for the Ph.D. Students must complete a minimum of six units of graduate work, one and one-half of which may be in an allied subject. The Preliminary Examinations consist of four tests written in Spanish on both Spanish and Spanish-American topics and an oral examination. Suitable fields for these examinations should be discussed with the Chairman of the Department. The Final Examination is oral and devoted to the dissertation and the field in which it has been written.

General Degree Requirements for the M.A. and the Ph.D. See pages 14-16.

SEMINARS

The seminars are arranged to allow the widest possible choice for students over a two- or three-year period of study. Normally the same seminar will not be given two years in succession.

Mr. González-Muela

The History of the Spanish Language
The Medieval Castilian Epic and Lyric
Medieval Prose from Alfonso el Sabio to the Corbacho
Popular and Elite Styles in Golden Age Poetry
The Language of Poetry since 1950

Mrs. King

Ideological Currents in Renaissance Spain
Cervantes
The Spanish Novel of the Sixteenth and Seventeenth Centuries
Seventeenth-Century Drama
Modern Drama
Critical Approaches to Literature

Mrs. Paucker

Spanish Romanticism
The Urban Novel in Spain
Unamuno and Machado
The Novel of the Mexican Revolution
Gaucha Literature
Stylistics and Advanced Syntactic Analysis

Mr. Sacerio-Garí

Chroniclers of the New World
Borges and His Precursors
The New Latin American Novel
Modern Latin American Poetry

SELECTED UNDERGRADUATE COURSES

- 302a *Medieval Spanish Literature*: Mrs. Paucker
303a *The Modern Novel in Spain*: Mr. González-Muela
303b *Modern Poetry in Spain*: Mr. González-Muela
304a *Cervantes*: Mrs. King
304b *Poetry and Drama of the Golden Age*: Mrs. King
350b *Masters of the Short Story*: Mr. Sacerio-Garí

Appropriate graduate seminars at the *Centro de Estudios Hispánicos en Madrid* may be included in the program for the M.A. or the Ph.D. (see page 13).

Fees 1980-81

Application (payable by citizens of the United States and Canada and foreign students presently in the United States): \$25.

Tuition

Full-time students:

\$5350 a year

Part-time students:

2 academic units \$3570 a year (or \$1785 a semester)

1 academic unit \$1800 a year (or \$900 a semester)

Auditors:

Fees for auditors are the same as those for students registered in courses for credit.

Continuing enrollment (see page 8): \$225 a semester, except for students using Bryn Mawr College Laboratories for dissertation research. In these cases fees will be determined in consultation with the major department.

Bryn Mawr alumnae/i who have received one or more advanced degrees from Bryn Mawr College (M.A., M.S.S., M.L.S.P., Ph.D.) are entitled to take up to two units of work (four semester seminars) at one-half the normal tuition, subject to the following provisions:

1. Admission to all seminars must follow approved admissions procedures.
2. Specific seminars are open on a space-available basis.
3. Full tuition must be paid if the course is to be counted toward an advanced degree from Bryn Mawr College.

Payment of Fees

Both tuition and residence fees will be billed by semester. The Education Plan of monthly payment in cooperation with the Provident National Bank is available for those who prefer to pay fees in monthly installments. Direct correspondence to the Comptroller of the College.

Summary of Expenses for the Academic Year

Regular

Tuition Fee (full-time)	\$5350
Residence in graduate student housing	2650

Contingent

Application Fee	25
Continuing Enrollment Fee	450
Course in Reading German or French	100
(flat fee from September to February)	
Health Insurance (United States citizens)	82
Health Insurance (foreign students)	130
Graduation Fee for all Graduate Degrees	50
Charge for Microfilming Ph.D. Dissertation	42
Late Registration Fee	10
Add and Drop Fee	10
(after the first week of a new semester)	

Faced with the rising costs of higher education, the College has had to raise tuition each of the last seven years. Further increases may be expected.

Refund Policy

In the event of withdrawal from the Graduate School of Arts and Sciences, refunds will be made according to the following schedule:

For Semester I

Withdrawals August 31 to September 12	75%
Withdrawals September 13 through October 10	50%
After October 10	no refund

For Semester II

Withdrawals January 19 to January 30	75%
Withdrawals January 31 through February 20	50%
After February 20	no refund

For those students living at the Graduate Residence Center, the charge for residence is \$1600 in 1980-81. In accordance with the above schedule, if a student withdraws from graduate study, a partial refund will be made of the fee only if the College is able to re-assign the student's space to some other student not previously in residence. The student is not entitled to dispose of the room he or she leaves vacant.

Students wishing to eat in the College dining halls can buy meal tickets from the food service.

Procedure for Securing Refunds

Written notice must be received by the Dean at least one week prior to the effective date of withdrawal. Students who have received loans under NDSL or GSL to meet any educational expenses for the

current academic year must take an appointment with the Loan Officer before leaving the campus to arrange for appropriate repayment of the loans in question.

Exclusion

In the case of unsatisfactory work, or failure to pass the requirements for the M.A. or Ph.D., the department may recommend exclusion of a student to the Dean of the Graduate School of Arts and Sciences, who will notify the student of the decision. If the student wishes to appeal the decision, the Council of the Graduate School of Arts and Sciences (including the President) will hear the student and the department; the decision of the Council of the Graduate School of Arts and Sciences and the President will be binding.

A student whose behavior disrupts the normal conduct of academic affairs may be excluded by the Dean, in consultation with the student's department. If the student wishes to appeal the decision, a committee constituted of members of the Council of the Graduate School of Arts and Sciences of the faculty and members of the Graduate Student Council will hear the student, the chairman of the department, and the Dean. The committee will make its recommendations to the President; the President's decision will be binding.

In cases of exclusion, fees will not be refunded or remitted in whole or in part; fellowships, scholarships and assistantships will be cancelled.

Students' Rights and Responsibilities

Equality of Opportunity

Bryn Mawr College admits students of any race, color, national and ethnic origin as well as the handicapped, to all the rights, privileges, programs and activities generally accorded or made available to students at the College. It does not discriminate on the basis of race, color, or national or ethnic origin or handicap in administration of its educational policies, admissions policies, scholarship and loan programs, and athletic and other College-administered programs or in its employment practices.

To aid the handicapped, regional alumnae/i will provide reading

services, orientation sessions and other services to applicants who make the College aware of their physical disabilities.

As required by Title IX of the 1972 Federal Education Amendments, it is also the policy of Bryn Mawr College not to discriminate on the basis of sex in its educational programs, activities, or employment practices. The admission of women in the Undergraduate College is in conformity with a provision of the Act. Inquiries regarding compliance with Title IX and other policies of non-discrimination may be directed to the Assistant to the President, Taylor Hall, or the Director of the Office for Civil Rights, Department of Education, Washington, D.C.

Family Educational Rights and Privacy Act of 1974

The Family Educational Rights and Privacy Act of 1974 was designed to protect the privacy of education records, to establish the right of students to inspect and review their education records, and to provide guidelines for the correction of inaccurate or misleading data through informal and formal hearings. Students have the right to file complaints with the Family Educational Rights and Privacy Act Office (FERPA), Department of Education, 5411 Switzer Bldg., 330 C Street, SW, Washington, D.C. 20201, concerning alleged failures by the institution to comply with the Act.

Copies of Bryn Mawr's policy regarding the Act and procedures used by the College to comply with the Act can be found in the Office of the Dean. The policy is printed in the Bryn Mawr-Haverford Academic Regulations, which also list all education records maintained on students by this institution.

Questions concerning the Family Educational Rights and Privacy Act may be referred to the Office of the Graduate Dean.

Designation of Directory Information

Bryn Mawr College hereby designates the following categories of student information as public or "Directory Information." Such information may be disclosed by the institution for any purpose, at its discretion.

Category I Name, address, dates of attendance, class

Category II Previous institution(s) attended, major field of study, awards, honors, degree(s) conferred

Category III Date of birth

Category IV Telephone number

Category V Marital Status

Currently enrolled students may withhold disclosure of any category of information under the Family Educational Rights and Privacy Act of 1974 by written notification which must be in the Office of the Recorder, Taylor Hall, by 5 p.m. on the last Friday in September. Forms requesting the withholding of "Directory Information" are available in all Deans' offices and in the Office of the Recorder.

Bryn Mawr College assumes that failure on the part of any student to specifically request the withholding of categories of "Directory Information" indicates individual approval for disclosure.

Fellowships and Graduate Scholarships

Fellowships and graduate scholarships are provided from the general funds of the College, from the gifts of alumnae and other generous donors, and from government agencies and private foundations. The majority of these awards are made on the basis of an annual competition. Fellowships carry a stipend of \$3500 in addition to tuition and are available only to students who have completed one full year of graduate work. Graduate scholarships have a value of \$3000 in addition to tuition and may be held by citizens and non-citizens and by students at all levels of graduate work leading to the M.A. or Ph.D. degree. Other awards vary in value.

Application

Application from citizens of the United States and Canada should be made to the Dean of the Graduate School of Arts and Sciences and must be filed complete not later than February 1. In writing for forms applicants should state their fields of concentration. Applications from foreign students must be received not later than January 25. Scores of the Test of English as a Foreign Language (TOEFL) or the examination of the English Language Institute of the University of Michigan must be included.

Graduate and Professional School Financial Aid Service

The Graduate School of Arts and Sciences is a participant in the Graduate and Professional School Financial Aid Service (GAPSFAS), Educational Testing Service, Princeton, New Jersey 08540. All applicants for financial aid must file a GAPSFAS form, Application for Financial Aid for the Academic Year 1981-82. Copies of the form are available locally in most colleges and universities; they may also be obtained by writing directly to Princeton. The completed form must be returned to the Graduate and Professional School Financial Aid Service by January 9.

Fellowships in the Award or Nomination of the College

Bryn Mawr College Fellowships of \$3500 in addition to tuition are offered annually in Anthropology, Biochemistry, Biology, Chemistry, Classical and Near Eastern Archaeology, Economics, Education and Child Development, English, French, Geology, German, Greek, History, History of Art, Latin, Mathematics, Philosophy, Physics, Political Science, Psychology, Russian, Sociology, and Spanish.

Alumnae Association Fellowships are provided from the contributions of former graduate students to the Alumnae Fund; from the Alumnae Regional Scholarship Committees of Eastern Pennsylvania, Southern New Jersey, and Delaware and of New York and Southern Connecticut, and from the Alumnae Association of Cambridge and of New Haven.

Marion Louise Ament Fellowship. Graduate fellowships in Spanish are occasionally awarded from the fund established in 1966 in honor of Marion Neustadt, Class of 1944.

The Elizabeth Eaton Butterfield Fund for Graduate Scholarships was established in 1978 as a memorial by friends and family of Mrs. Butterfield, Class of 1935, founder and for many years President of the Bryn Mawr Book Sale of Cambridge, Massachusetts.

The Henry Joel Cadbury Fellowship Fund in the Humanities was established in 1973 by the Board of Bryn Mawr College in honor of Henry Joel Cadbury, Trustee Emeritus. The fund was made possible by donations from current and former trustees and directors of the College and friends of Dr. Cadbury in order to provide annual support for graduate students in the Humanities who have reached an advanced stage of their graduate work.

The Bertha Reed Coffman Fellowship Fund was established in 1964 through the estate of Bertha Reed Coffman, a teaching fellow at the College in 1906-1907.

The Theodore N. Ely Fund. A fellowship or scholarship in Art or Archaeology is awarded to a graduate student from the interest on this fund, which was established in 1959 by bequest of Katrina Ely Tiffany, Class of 1897.

The Folly Ranch Fund was established by an anonymous gift in 1974. The income is used for graduate and undergraduate scholarships in honor of Eleanor Donnelley Erdman, Clarissa Donnelley Haffner, and Elizabeth P. Taylor, Class of 1921, and Jean T. Palmer, Class of 1924.

The Grace Frank Graduate Fellowship Fund in the Humanities was established in 1979 in memory of Grace Frank who taught French at Bryn Mawr from 1936 to 1951. The income is used to provide graduate fellowships to students in the humanities.

The Margaret Gilman Fund. A fellowship or scholarship in French is awarded from the interest on this fund, which was established in 1958 by bequest of the late Margaret Gilman, Professor of French at Bryn Mawr College.

The Howard Lehman Goodhart Fellowship is awarded to an advanced student in medieval studies.

The Helen Schaeffer Huff Memorial Research Fellowship is awarded for a year of research work in Physics or Chemistry at Bryn Mawr College. If other qualifications are equal among a number of candidates, preference will be given to a student whose field of research overlaps the fields of Chemistry and Physics. This fellowship is normally awarded to a postdoctoral candidate to allow continuation of a research program. In such cases the stipend will be \$7500. In exceptional cases, candidates who have not completed the work for the doctorate will be considered. For such students the stipend will be less, the amount to be determined on the basis of the candidate's qualifications.

The Anne Cutting Jones and Edith Melcher Scholarship Fund was established in 1972 from the estates of Anne Cutting Jones (Ph.D. 1925) and her close friend for many years Edith Melcher (A.B. 1923, M.A. 1924, and Ph.D. 1928). The income is used for scholarships for graduate and undergraduate students in French.

The S. Maude Kaemmerling Scholarship was established in 1959 by the estate of S. Maude Kaemmerling and increased by a gift in 1965. The income on the fund is to be used for graduate scholarships and fellowships.

The Louise Kingsley Scholarship Fund was established in 1972 through the bequest of Dr. Kingsley (Ph.D. 1931). Income from the fund is used for graduate scholarships and fellowships.

The Melodee Siegel Kornacker Fellowship in Science was established in 1976 by Melodee Siegel Kornacker, Class of 1960. The income is used for a graduate fellowship in Biology, Chemistry, Geology, Physics, or Psychology.

The Samuel H. Kress Foundation Fellowships in varying amounts are awarded to advanced graduate students in History of Art.

The Mabel Gibson La Foy Fund for Graduate Tuition Grants was established in 1975 by Margaret La Foy Rossiter (M.A. 1938, Ph.D. 1941) in honor of her mother, Mabel Gibson La Foy.

The Elizabeth R. Laird Scholarship Fund was established in 1969 by the will of Elizabeth R. Laird, Ph.D. 1901. The income is used for graduate scholarships in any field of study.

The Katharine Elizabeth McBride Fellowship. In the 75th Anniversary Year a fund for a graduate fellowship in honor of Katharine McBride, President of the College from 1942 to 1970, was established by certain alumnae. The endowment of this fellowship was increased by a gift from the Class of 1925 on its 40th reunion. The fellowship is awarded in any department to a candidate for the Ph.D. degree who is about to complete two years or more of graduate work.

The Emmy Noether Fellowship was founded by gifts from many donors in memory of Emmy Noether who came to Bryn Mawr College from Germany in 1933 and who died April 14, 1935. It is open to students in the United States and in foreign countries who are advanced graduate students of Mathematics. It is awarded by the Department of Mathematics of Bryn Mawr College and may be used, subject to the approval of the Department, at any institution in the United States or in a foreign country.

The Max Richter Fellowship Fund was established in 1962 and increased in 1965 by gifts from the Trustees of the Richter Memorial Foundation. Income from the endowment provides fellowship to advanced students interested in public affairs.

The Mildred Clarke Pressinger von Kienbusch Fellowship was established in 1964 by a gift in honor of Mildred Clarke Pressinger von Kienbusch of the Class of 1909. The income on this fund is to be used for a graduate student working toward the doctorate. This award may be made to a beginning graduate student.

The Bertha Haven Putnam Fellowship in History Fund was established in 1960. The income from the fund is used for fellowships or scholarships in history.

The Mildred and Carl Otto von Kienbusch Fellowships were established in 1977 by bequest of Carl Otto von Kienbusch. The income on this fund is to be used for graduate students working toward the doctorate. These awards may be made to beginning graduate students.

Scholarships and Fellowships under the Plan for the Coordination of the Sciences. The departments of the natural sciences and Mathematics administer a fund for the Coordination of the Sciences, given to the College in 1935 by the Carnegie Corporation of New York. Its purpose is to encourage and facilitate teaching and research in fields such as biochemistry, biophysics, geochemistry, geophysics, and psychophysics.

From this fund, the Committee for the Coordination of the Sciences awards fellowships, scholarships, assistantships, post-doctoral research fellowships, or other grants as seem appropriate.

The Mary Waddell Fellowship Fund provides grants of \$1000 each for the study of Mathematics to daughters of American citizens of Canadian descent.

Whiting Fellowships in the Humanities are awarded to students in their final dissertation year. Each fellowship carries a stipend of \$600 per month, plus tuition, together with a modest allowance for research expenses and a family allowance if needed. These fellowships are available in the Departments of Classical and Near Eastern Archaeology, English, French, German, Greek, History, History of Art, Latin, Music, Philosophy, Russian, and Spanish.

Fellows by Courtesy. Fellows who continue their studies at the College after the expiration of their fellowships may, by a vote of the Trustees, receive the rank of Fellow by Courtesy.

Honorary Fellows. Students who are awarded fellowships on academic merit and who decline the financial benefits of the award receive the title of Honorary Fellow.

Travelling Fellowships

The Bryne-Rubel Fund was established in 1973 by the estate of Eva W. Bryne, B.A. 1916, M.A. 1917, and Ph.D. 1925. The income of the estate may be used to fund one or more one-year fellowships in English, Latin, Greek, or Archaeology to a graduate student at Bryn Mawr for study outside the United States. The Bryne-Rubel Fellowships may also be used by students in English or Latin at Bryn Mawr.

The Christopher Fund was founded by an anonymous donor in 1977. The income is to be used for travel expenses of Bryn Mawr

graduate students to Villa Massenzia in Rome. If not required for Massenzia, then the income should be used for travel costs of graduate students in Classical and Near Eastern Archaeology studying in the Mediterranean.

Massenzia Scholarships for use at the Villa Massenzia in Rome (see page 13) are awarded to students whose program requires them to stay in Rome for one year.

The Anna Ottendorfer Memorial Research Fellowships in Teutonic philology and German language and literature, founded in 1907 by Mrs. Anna Woerishoffer in memory of her mother, is to be applied to the expense of study and residence for one year at a German university. It is awarded to a student who has completed at least one year of graduate study at Bryn Mawr College and who shows ability to conduct independent investigations in the fields of Teutonic philology or German literature. The choice of a university is determined by the holder's preference, subject to the approval of the faculty.

The Ella Riegel Fellowship or Scholarship in Classical Archaeology was founded in 1937 by bequest of Ella Riegel. It is awarded on the recommendation of the Department of Classical and Near Eastern Archaeology to advanced students in this subject. It is given for study abroad but may, at the discretion of the Department, be used at Bryn Mawr College.

The Fanny Bullock Workman Travelling Fellowship for a year of study or research abroad was established in 1927 by bequest of Fanny Bullock Workman and by gift of her husband, Dr. W. Hunter Workman. It is awarded to a candidate for the degree of Doctor of Philosophy at Bryn Mawr College who could not have the advantages of such a year without assistance. At the discretion of the faculty, the fellowship for any one year may be divided between two students, or the same student may hold the fellowship for more than one year.

Graduate Scholarships

Bryn Mawr College Graduate Scholarships of \$3,000 each in addition to tuition are offered annually to students for work in any department of the Graduate School of Arts and Sciences.

Scholarships for Foreign Students. These scholarships are designated for foreign students who have excelled in their university studies. Applicants must have had three or four years of university training. Each scholarship carries a stipend which covers full tuition and residence in graduate student housing during the

academic year. (Meals during vacations are not included and students will need to provide their own funds for these and other expenses.) Scholarship holders are expected to carry a full program of graduate work and to attend regularly the courses for which they are registered. Work is given in seminars or small discussion groups in which the students, as well as the instructor, actively participate. It is essential, therefore, that the student be able not only to read and write English, but to understand it and speak it fluently.

The Marguerite N. Farley Scholarships for Foreign Students, which provide tuition and a stipend to cover room and board on campus, are offered to students from any country outside the United States and Canada. Occasionally a fellowship is awarded from this fund to a foreign student who has completed at least one year at Bryn Mawr.

A special British Scholarship, which provides tuition and a stipend to cover room and board on campus, is awarded to students from the United Kingdom who are sponsored by The English-Speaking Union.

Special Foreign Scholarships for French, German, Hebrew, Italian, and Spanish, which provide tuition and a stipend to cover room and board on campus plus \$250, have been established for students whose languages form a part of the Bryn Mawr curriculum. Holders of these scholarships are asked to devote four or five hours a week to supervised teaching or other assistance in the appropriate language department. The Special Scholarship for French has been named in memory of Marcelle Pardé who was a member of the French Department of Bryn Mawr College between 1919 and 1929. The Special Scholarship for Spanish has been named in memory of Miguel Catalan, distinguished Spanish physicist and friend of Bryn Mawr.

Duties of Fellows and Scholars

Fellows and Graduate Scholars are required to carry a full academic program at Bryn Mawr College. They are expected to attend official functions. Fellows are not permitted to accept other appointments. Scholars, with the permission of the Dean of the Graduate School of Arts and Sciences, may undertake a limited amount of paid work.

Each Travelling Fellow is asked to present a written report of the work done during the fellowship year. This report should be submitted to the Dean of the Graduate School of Arts and Sciences for transmittal to the student's department by about May 1.

Assistantships

Teaching Assistantships are available in some departments. These positions carry salaries of \$4200-4410 for half-time work, \$2800-2940 for one-third-time work, and include tuition without fee. The duties differ with departments. In science departments, assistantships provide teaching and laboratory experience.

Graduate Assistantships are available in some departments. These positions provide full-time tuition and wages according to the hours of work given to the department.

Research Assistantships are available in the Department of Biology, Chemistry, Geology, Physics, and Psychology.

All Assistants are expected to maintain good academic standing during their terms of appointments. In cases of academic exclusion (p. 83), assistantships are cancelled.

Internships and Field Work Placements. The Department of Education and Child Development offers each year one internship, with stipend, in school psychology. The intern is placed in the Child Study Institute and receives individual supervision there. Supervised practicum experience at the Institute is also available, usually without stipend.

Supervised field work placements, with stipend, are available in school counseling. These are open to advanced, highly qualified candidates in the school counseling program sequence. Supervised practicum experience in counseling is also available, usually without stipend.

Tuition Grants

Tuition grants are available for full-time and part-time students. Gifts from the Alumnae Fund have increased the number of these grants.

Graduate Prize

The Susan B. Anthony Memorial Prize, commemorating the great work of Susan B. Anthony for women, was founded by her friend, Anna Howard Shaw, and her niece, Lucy E. Anthony. It is offered from time to time to a graduate student at Bryn Mawr College who has published or submitted in final form for publication the best study dealing with the industrial, social, economic, or political position of women. The award is made by a committee of which the President of the College is chairman.

Loan Funds

National Direct Student Loan Program. These loans are available to students who are United States citizens or permanent residents and who are registered for at least two units of graduate work. Application is made on a special form which is obtained from the Loan Officer after a student has been admitted to the Graduate School of Arts and Sciences. The application and a GAPSFAS form (see page 7) must be filed by August 1. Allocation of loan funds is made late in August.

Guaranteed State Loan Program. Students are encouraged to apply for Guaranteed State Loans, available to United States citizens who are studying at least half-time, through their local banks. Part of the application is completed by the Loan Officer.

All students who are applying for National Direct Student Loans are advised that GAPSFAS PART III is required from those who do not meet the governmental definition of independent student. Therefore, if you expect to apply for a National Direct Student Loan, complete Part III if, during the last twelve months, you a) resided for more than six consecutive weeks with, or b) have been claimed as a federal income tax deduction by, or c) have been the recipient of an amount in excess of \$750 from one (or both) of your parents.

The Students' Loan Fund of the Alumnae Association of Bryn Mawr College was established by the Class of 1890 for the use of students who need to borrow money in order to continue their college work and for the purpose of receiving contributions, no matter how small, from those who are interested in helping students obtain an education. The fund is managed by the Alumnae Scholarships and Loan Fund Committee.

Loans may be used for purposes approved by the Committee, who try to provide small loans to meet special emergencies or to help with tuition payments. As a rule, money is not lent students in their first semester of graduate work. Not more than \$500 may be borrowed by a student in any one year. The total for four years must not exceed \$1500.

While the student is in college no interest is charged; after the student leaves college the interest rate is modest. The entire principal must be repaid within five years from the time the student leaves college at the rate of twenty percent each year. Students who wish to borrow from the Loan Fund may obtain application blanks for

this purpose from the Office of Admissions and Awards of the Graduate School of Arts and Sciences.

U.S. Steel Foundation Graduate Level Loan Program. A fund of \$10,000 has been established for students in Anthropology, Biology, Biochemistry, Chemistry, Economics, Education and Child Development, Geology, History, Physics, Political Science, Psychology and Sociology. Loans of amounts up to \$2000 will be made to cover expenses in connection with tuition, books, research equipment, living expenses, travel, summer research. Conditions are as for the Alumnae Association Loan Fund, see above.

Career Planning Office

Graduate students are invited to make use of the services of the Career Planning Office. These services include counseling on career interests and concerns; information on specific openings for summer, temporary and permanent, full- and part-time positions; consultation on job-hunting methods. Upon request the Career Planning Office also maintains and makes available to prospective employers the credentials of graduate students and alumnae. The credentials include curriculum vitae and faculty and employer references.

Graduate Student Council

The Graduate Student Council, composed of one representative elected annually from each department offering a graduate program, is the instrument through which graduate students may voice their concerns and needs to the faculty and administration. When appropriate, the Council also initiates and carries out specific programs to meet these needs.

Graduate students work primarily in one department, so that the Council provides a means of communicating with students in all departments. Council meetings are held at least once a month in the Graduate Lounge located in the M. Carey Thomas Library. Graduate student opinion is sometimes solicited through questionnaires, so that the Council may best represent various opinions.

Representatives of the Council sit on various College committees such as those concerned with the Library and computer services. In addition, the Council is represented at meetings of the Board of Trustees.

The Council also plays a major role in devising policies and procedures for on-campus graduate housing.

Graduate Student Housing

Housing is available for about forty-three graduate students in the Glenmede Graduate Residence Center which consists of single rooms and three large double rooms in the main house, and a number of single rooms in the smaller houses on the estate. The College provides basic furniture; students supply linen, bed pillows, desk lamps, rugs, curtains and any other accessories they need. (Local rental services will supply sheets, blankets, and pillowcases for a modest fee. Arrangements may be made on arrival.) Because of college fire regulations, smoking is not permitted in the bedrooms. There are smokers on certain floors.

There is no food service in the center. Graduate students can avail themselves of kitchen facilities on a cooperative basis. Meal tickets can be bought for complete meal service or for incidental purchases of meals in the College dining rooms on campus.

Application for a room should be made as early as possible. A room contract, which will be sent upon request, must be signed and returned to the Office of the Graduate School of Arts and Sciences with a *deposit of ten dollars*. The deposit will be deducted from the residence fee; it will be refunded only if the student cannot be accommodated.

A student who has reserved a room will be held responsible for the residence charge unless notice of withdrawal is sent in writing to the Dean of the Graduate School of Arts and Sciences by August 15.

The regular charge for residence (room) for graduate students is \$1,600 a year, payable one half by September 1 and the other half by January 1. Although the Graduate Residence Center may be closed during the Christmas and spring vacations, when health service is not provided, residence on campus covers the period from the opening of College in the fall until Commencement Day. Baggage will be accepted at the College after August 20. It should be sent prepaid, addressed to the proper residence hall, and marked with the owner's name.

Health

Medical Services

The College maintains an Infirmary, with in-patient and out-patient services, open during the academic year but closed in the summer. There is twenty-four hour physician and RN coverage. The medical staff may be consulted without charge by students residing in campus housing. Students living off campus pay for health services, as rendered, at a nominal fee. If special consultation or private nursing care are necessary, the student must meet the expense. The College reserves the right to require a student to withdraw, for reasons of health, upon the recommendation of the College Physician.

A Counseling Service is available to all students. Consultation with a psychological social worker or psychiatrist should be arranged by appointment through the Infirmary Secretary. Counselors can be reached through the Infirmary in cases of emergency. A charge, determined on a sliding scale based on ability to pay, is made for visits to the Counseling Service in excess of four. Should long term therapy be necessary, the student is referred for outside private care.

The Infirmary offers use of its rooms for sleeping privileges, without meals or nursing care, for about \$6.00 a night (1980 rate).

Medical Requirements

All entering students must file medical history and evaluation forms with the Infirmary before registration for classes.

Insurance

All graduate students are urged to carry health insurance valid in the United States. For those who need coverage, student policies are offered and should be purchased by September first.

Child Care

The Phebe Anna Thorne School

Situated on the Bryn Mawr Campus, and integral to the Department of Education and Child Development, the Thorne School is a laboratory school which enrolls young children from nearby communities in creative, pre-kindergarten programs. The School has for its aim the fullest and happiest development of each child within the context of a group and offers half day sessions Monday through Friday, September-May. For fees and information, write to or telephone the Director, The Phebe Anna Thorne School, Bryn Mawr College, Wyndon and Roberts Road, Bryn Mawr, Penna. 19010. (215) 527-5490.

New Gulph Children's Center

Child care on a space available basis for Bryn Mawr college families may be found at the New Gulph Children's Center, Conestoga and Sproul Rds., Villanova, just ten minutes from campus. Children 3 months through 6 years old are eligible. The center is open five days a week, 7:30 a.m.-5:30 p.m.

The center, conducted by professional staff, incorporates appropriate age group developmental activities with high quality group care, plus nursery school and kindergarten programs. Flexible schedules can be arranged to accommodate the programs of students. A minimum of nine hours regular use per week is required.

The fee scale is based on the age of the child and the number of hours at the center. Tuition for the semester is payable in advance. Financial assistance is available. Early registration for all programs is essential. For more information contact the Director at 688-2411.

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From the North and Northeast

The College is most easily reached using the Schuylkill Expressway (I-76). From the North and Northeast there are three approaches to I-76.

1. Walt Whitman Bridge, I-676 to I-76
2. Benjamin Franklin Bridge, I-76 (Vine Street) continuing west on I-76
3. Pennsylvania Turnpike to Exit 24 (Valley Forge Exit) continuing east on I-76

From these approaches you may use the following routes:

1. CITY AVENUE Take Exit 41 (City Avenue-U.S. 1 South) and proceed on City Avenue until City Avenue intersects route 30 (Lancaster Avenue). Turn right on Lancaster Avenue and drive approximately four miles to reach the center of Bryn Mawr. Turn right on Morris Avenue (Arco gas station) and follow the underpass. There is a College parking lot one and one-half blocks along Morris Avenue on the left.
2. GULPH MILLS Take Exit 27 (PA 320, Gulph Mills). Follow PA 320 south and turn left at the first traffic light onto Old Gulph Road. The College is three miles down the road on the right. A College Parking lot is located the third entrance on the right after Roberts Road

From the West

Pennsylvania Turnpike to Exit 24 (Valley Forge Exit). Continue east on I-76 and take the Gulph Mills route described above.

From the South

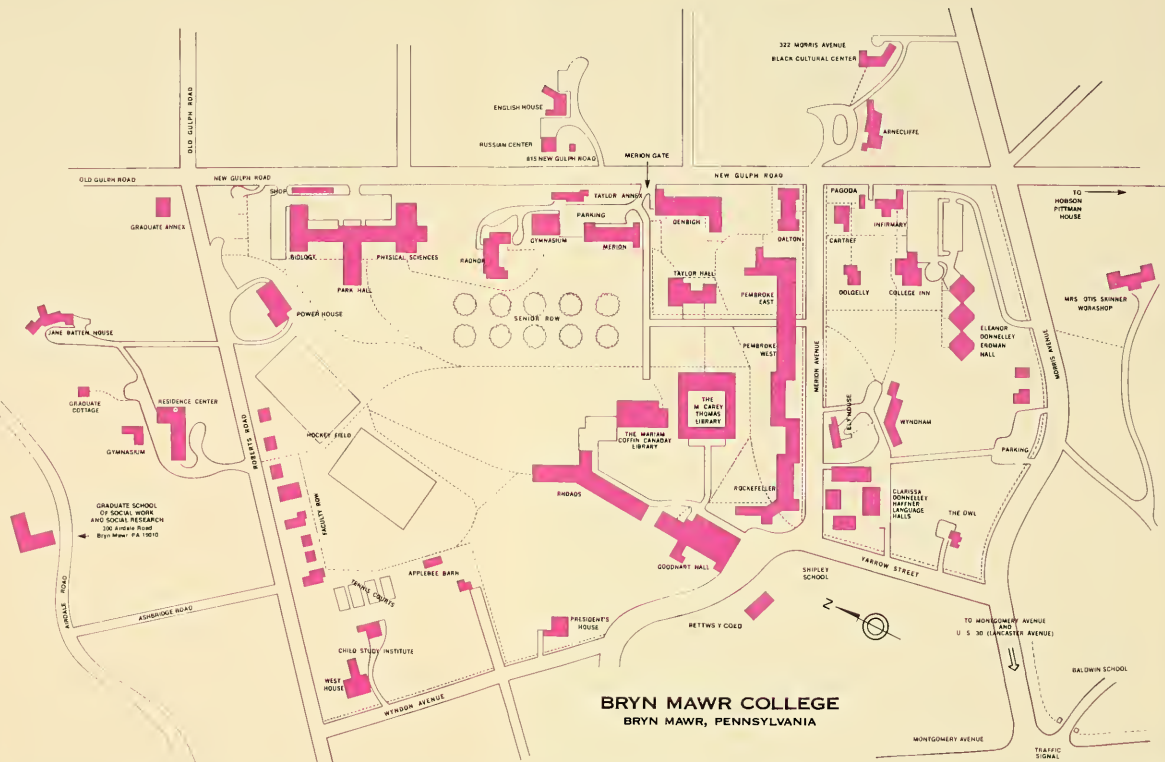
Follow I-95 through Wilmington, Delaware, to Chester, Pennsylvania, then take the PA 352-Edgemont Avenue Exit. Immediately look for, and follow, signs for PA 320 North. Continue north on PA 320 for approximately 10.5 miles. Turn right on Bryn Mawr Avenue and follow until it crosses Lancaster Avenue and joins Morris Avenue. Turn left on Morris Avenue and follow the underpass. There is a College parking lot one and one-half blocks along Morris Avenue on the left.

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